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Harmonics of Pi and Monstrous Moonshine Loops of the Maths and Physics

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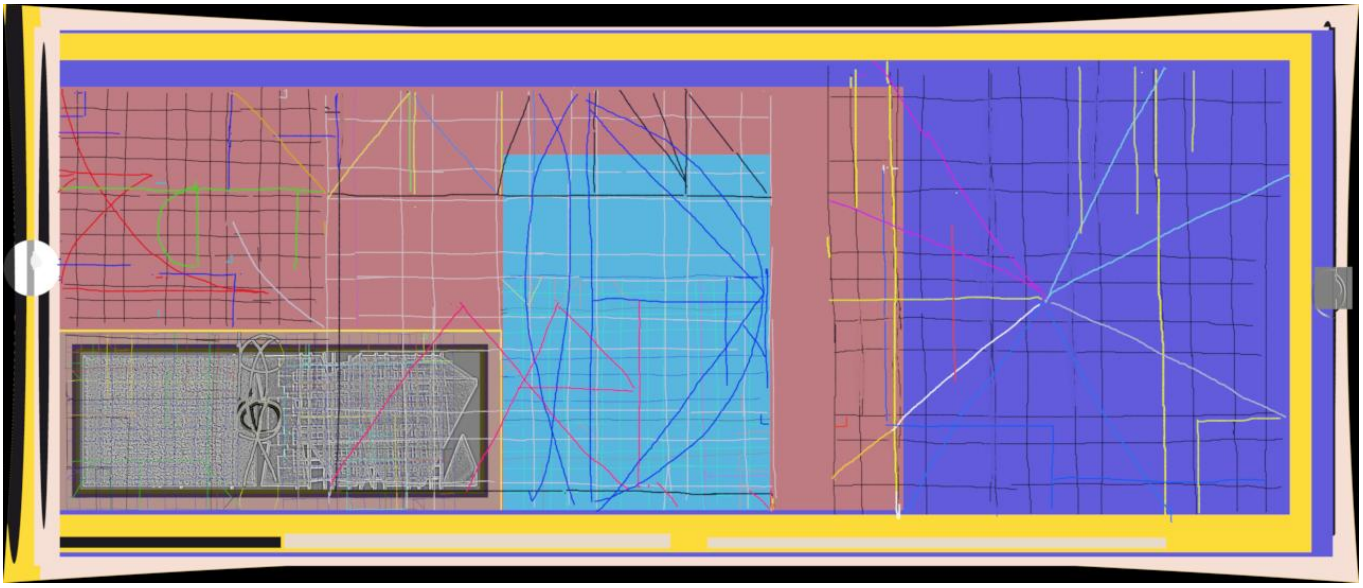

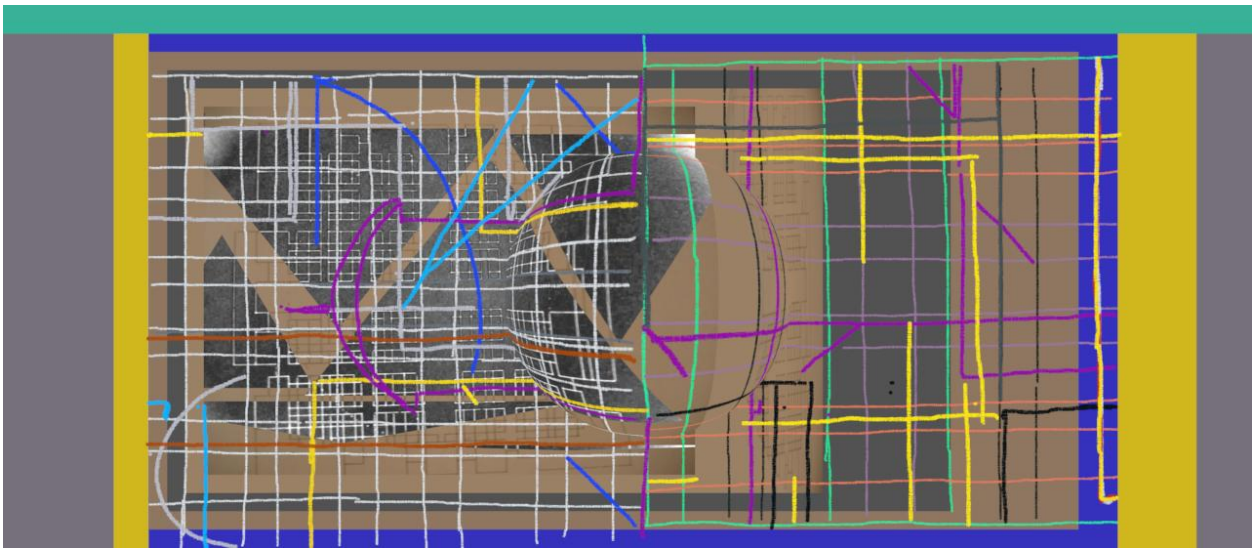

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: Harmonically Embedded Pi with Structural Overtones , Stoppages and Passages Projecting Between Cycle Links of Transforming Scales...:

These ideas will compose a what are chess-like moves within a numerical system namely that of the goldens section as related to pi and finding an internal dynamic innately Architrongly linked modes to contemporary physics... chess like because the moves might be seen as able to make an overall fluidity of links... but my thesis is this fluidity and generality fractal like is analogical to a plasma like construct open to all the tunnelling ; branching, permutations which make the quantum consciousness available to a kind of

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fantastic winding quality which the epithet numerology is meant to discredit as failing warrant or discreteness...On the contrary these numerical identifications are innately Archi-structural to their own abstract phase spaces and following works will engage the imagination towards considering then the following potentials of the text. (one can relate similarly the Cayley impulse to simply relate the symmetries of the number line to their projective tension as itself a kind of review of the affine projection of Lie Algebra thus in this case also revisiting a linked Algebra and Geometry nexus...

To a particular “echinus” or spiky growth (origin of word existence via Greek “Eikei-to be) in Haleakalā crater in Hawaii are the “Silver Swords” singular white formed long

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branes of spiking plant leaves mysteriously reaching out from the lava as though rooted in time to an underlying plasma of the universe...

In this spirit the drawings here reach out to bridge with harmonic and golden section terms the physical particle groups and a particularly vast number called The Monster for which is predicted a connection I here provide the title for-given has been termed “Monstrous Moonshine”

Parenthetically, to he dynamic of linking Pi to the golden section is akin to reimagining the affine structure of circle to tangent geometry from the consideration of the golden section as the product of the reciprocals of the square roots of ten and 11 and the recursive base structuring of 11

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divided ten (extensively structured in Euler’s number) because the cyclical reference as embedding unity links orthogonal and circular dynamic with differentiation in the spiral and multiples as come closer a limit (similarly factoring by primes is not :numerology, it is a structural intercept into the density of the number line as also we see in this process relating Pi to prime numbers) also along the way thus elicit suffixes which vary in their projections and the elasticity of this process goes beyond mere cutting and splicing to meet some coordinate to , rather, the intricate potentials embedded in the process and reproposing its functions and dimensions…as polyphonic multiplicities embedded within emergent symmetries… are linked between

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order and disorder as themselves entangled within fuzzy order spectra… a harmonic clause is engendered in each leading position which finds semi discreet coordinates within the flux… found in a kind of Taylor like mode over harmonic increments and integer projections towards their “ pitch) and resonance…essentially in Fourier terms “overtones”…

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Introduction

Just as the relation we have to the Social Contract is much the study of Conceptual Art so also it seems interesting to study through art the Laws of physics with mathematics as an arm shared in drawing. To give a telling example Mondrian's Diamond view of a canvas by flipping the Hypotenuse to center view actually gives a pretty good introduction to "Space Time" ...

The Creation of a Bridge between Physics Particles and a number which is as vast practically as the universe namely the Sporadic Prime Monster Group has long been conjectured to link 24 dimensions of string theory to 24 categories of these primes and the Book is the long sought bridge by which I distinguish the harmonics

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of golden section having pi embedded as structuring the physical constants and likewise embedded in the Sporadic Group, and over 24 bridges of comparison I make this case through my art and commentary as follows while linking to a mathematics linking the many fields via higher dimensions in which String Theory is an example of such an overall analytic approach and so on to Category Analysis Mathematics presented through my relation to art as drawing and drawing conceived as a vast consortium of interests.

Somewhat pause less but resting in its momentum the trajectory here in simplest terms takes in the relation of order and disorder as potentially entangled modes.

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For one thing it is a collection of butterflies (mathematical) which are behaviors occurring at limits and forbidden zones which generate oscillations… and these may connect with higher dimensions. Compactification as in string theory and projection as in quantum certainly have a macro-micro Alice in WW degree… but the interest in mathematics has to do with identity in thought namely how thinking about thinking changes thinking… and creates modes that mirror, reflect, saddleback, tunnel, rotate, and as our language is based on some 300 Sanskrit words for drawing so also is the interesting mathematics devolved from this actually the same connective tissue between poetry, art, rhetoric, mathematics, physics… in short all

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are art for art's sake... or as Finnegans Wake puts it "a vicarious vicus of recircumlocution..." (Joyce is referencing I believe a Lissajous curve, the structure you see in fireworks displays which discovered by Bowdich navigator probably reference pattern of crossing own wake and relation of ship gyroscopes...

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Whereas an Archimedes spiral introduces proportion per se, The Echinus is a symbol in architecture which is the generalized comport of spiky outreaching like a sea urchin or spindly plant or diagonalized decoration forms in fact a germ

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of generality itself. The image then prompts ; a noema or fishtail circuit (timi) and time like and thereby exotic mobius informed spheres approaching higher dimensions through potential energies as of the sides of spherically oriented surfaces relating to flattened simplifications to ratio known in mathematics “spectral-and-automorphic as co-informing and termed relating algebras and number theory to geometry as tested in string theory knots and vaccua levels essentially then “k-space” where analytic “category theory relates different way of thinking (dimensions on demand) thus for example the centralized Archimedes spiral may meet also a log or planar spiral, a sine wave (complex pattern), a plane wave, referencing projection or an exotic sphere

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where the surfaces are mobius like for example and so meet the cascade of such new dimensions introduced in the virtual art of physics and math on realm where time and space scale vectors and scalars in complex mathematics as in the quaternion and octonion orders relating to the afore mentioned spectral and automorphic form linking geometry to dimensions and categories of thinking mathematically as the land and seascape.

This then - as it were comprising the lucid dreaming of toy world horizons by which I mean the construct upon some orientation we should make to Duchamp and Escher....via their toy worlds.. The first artist via the Glass approached the 4^{th} dimension and its potential representation as his n

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dimensional chess through the approach to fourth dimensional physics in which the Minkowski time cone generating view of past and present to time has also a view read in mathematics as time sheet, world line and world tube analogical between art representation of growth from point to line to plane to volume as in Klees notes in the Thinking Eye.. having also a Elsewhere plane or simultaneous hyper plane which is essentially that aspect we know today as Bob and Alice, or the morphing of the representation of signals over time and space. this then is the root of the title “Delay In Glass”... more specifically Duchamps “stoppages” or supposedly a dropped string traced curve re- made a measure in wood French curve so to speak of the stencil as

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was actually referencing Einstein space time curvature and because several of these were made and stacked in a box they refer to the “ parallel transport” of “world Lines”… an idea I develop in relation to what are called Wilson Loops in my subsequent text… Escher’s’ art on the other hand grew out of the discovery of “exotic manifolds in which the mobius aspect of a surface applies in different dimensions to a sphere, with the potential of a kind of wrap around or mobius aspect in which the two sides have differences …(my own proposal over this then is that potential energy in this occurrence reflects a possibility of potential energy to be transmitted to the vacuum color or quark energy and from low level fluctuation tunnel the electromagnetic

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spectrum through low level gravity waves as well as the understood virtual particle vortex and tail forms - just as virtual particles maintain precisely this energy borrowing, and together form this brane, point to surface transpose meeting charges thus carrying that energy described in string theory as compactification of dimensions over vaccua knots (essentially dimensions of space itself underlying time) and up along the way ... iterating and morphing matrix transpose and Pascal diamond to its and matrix pyramids amid structure of mathematical objects and algebras... the Langlands Spectral and Automorphic Program...mathematics toward Category Theory we have mentioned...

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An initial approach to consider then is the Monster Moonshine number of prime permutations of finite degree called Sporadic Series which I compare to physics particles and constants via the embedding of pi within these latter and likewise the harmonic embedded in the Sporadic series thus creating the long sought Monster Moonshine Bridge as I devise to these terms such embedding and continue to further study the different types of embedding in mathematics and physics as I go along... as it relates to the history of the 8fold physics to Octonion particle journey. Harmonium might title necessary references to the vibrations of lattices in the ultra-fine regime and the integration principle of angular orbital momentum linked mathematically to fuzzy

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numbers as a sub theme. Lucid Dreaming on the other hand is a term I use to reference a unique state of consciousness between the norms which aptly poses in effect a quantum like denomination of critical consciousness. The primary formal appreciation, to summarize, rests on analytic over the relation between mathematical objects and their pursuant algebras and weak forms meaning a gnomon like quality associated with gamma. I pursue the complex space relations of log to bilateral symmetry in a variety of transforms , and also relate interior and exterior product forms as shape forces… which become relevant to the uncertainty principle and the shape shifting of the Moyal Bracket and

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affiliated analytic. (noting as well that This effectively mimics Minimalist No-Space...)...

The method is to consider a Hamiltonian e.g. rotational space constructed on first an analysis of the particles and constants as embedding the golden section consistently and this established the pursuing the nature of fields in physics as valences to their overlapping stiffness aspects and coordinating this view then to harmonic ratios overlapped in constants and particles as toy versions upon which to build in ratio aspect the Hamiltonian considered from the point of view of the four fold aspect of (i)...

Within the Monster group the relation between complex torus variation on Fourier square wave as also the variation of the orbifold but with a difference between two

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and three dimensions with resonance to a wraparound or mod structure between “alternating groups” and “faithful representations, the former a cyclical structure to evens and the latter linear mapping of kernel like projections of a string where the approach of a function to its disappearance in the zeros of matrixes are not a zero in the representation but the approach to a vacua level ! -which reviewing a relation between mathematical objects and pursuant algebras as itself a string theory like idea there becomes linked also in rapid succession a view over such generalities we will successively encounter via such terms to explicate as singularity, cusp, orbifold, manifold, polytope, saddleback, as dimensions to complex

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functions and between direct and indirect function approachable on a primus of preparing to consideration The Gellman matrix relative Pauli matrices as linking three dimensions to higher thus generally speaking their mode in overview.

To clarify then,

At outset, a harmonic view over particle groups in physics will give the basis for rotational spatial aspect linked to time and phase are to consider as the previous implications of the Monster Moonshine (a limitation on the Monster Group which then poses to physics) per rotational space and time phasing over the following vocabulary linking the golden section to particles and forces or constants.:

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The Travois, The Dogsled and AI

Consider for example that the wheel of Ai has the same Achilles heel as the dogsled...The Indian without wheels manages the travois, and the Eskimo the dogsled. That is the human foot in relation to the animated spectacle... one might say in like spirit of Heraclitus' statement the sun is the size of a human foot giving wry acknowledgement to the foothold of the chariot... and Ai must study human intuition as the functor behind the wisdom of the knowledge systems in the machine learning.

Turning to the Geode : a mathematical recourse to geometry as indexing higher dimensional transforms that become necessary in understanding mundane experience while having a life of their own...

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we encounter the instructive borders of comprehensible experience in the Planck regime and the potential for quantizing the sub Planck essentially string mathematics world perhaps from the stand point of the analogy of the tangled string dropped on floor rather than the smooth Duchamp “stoppage” The tangled Monte Carlo crossings as singularities to the floor where the object and floor become a bifurcation of the reference create the singularity… likewise the Couch “string” seems to tauten and then the inversions lack mathematical coherence to the Standard model… however via the multitude of zeros now this reversal can be seen as the distance factor in higher dimensions as approached in syntax by scientific notation or digit grouping or

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relational bracketing all of which can be thought of as relating a unitary model to modulus as co-cantations intimated in the relation of a reciprocal to the algebraic (i_ which itself enters as fourfold...The distinction between manifolds and orbifolds follows suit.

Bob ,Alice, Martha Grahm and the Monster Group Mirror Displacements

Structural consideration over Types and Degrees, Mixes and Strings Might be initially oriented for example to Coxyl diagrams relating vertices and faces and edges of polygon in a symbolic listing in which the list as such gave each

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string the dimension then of its numbers of inclusion and simplifying this to the rotation of a cube we arrive at the primitive root of the “monster” or highest known dimension of non infinite sets . The primary structural mode is the diagonal, in fact a text from a 1920s magazine The Diagonal by Hambidge has been seminal to architects. The growth pattern of root rectangle upon their diagonal places to view the diagonal of a square as the square root of two and this is in general the “mass” relativeof a ratio as oblong

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orthogonal which it describes… is the mass of…On the other hand the diagonal entirely through the oblong is described by the familiar Pythagorean and its relation to the gnomon i.e. ratios of squares top and side. The two diagonals just described, as they coincide create a logarithmic spiral. Then again another familiar life of the diagonal is its structuring of complex numbers. We find it again as the Clifford "trace" of square matrices such as the Pauli Matrices and the Gell-Mann in which then Pauli stand as three dimensional referents in an

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8 fold matric which is itself the view of degrees of a rotational cube and this 8 fold becomes the nature of the Octonion purvey of a Hamiltonian or rotating of diagonal in space. The phasing of this between xyz and ijk also suggests a compression and potential distortion of space taken up in effect by Moyal brackets relative non diabatic structure over the complex plane. The Triangular matrix as a version of the diagonal becomes encoded in the listing process of the monster via the Leech lattice mapping system in the Golley code and as the triangular matrix

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finds trigonometric relation in one region the opposite region is empty... thus in transpose representing a time element open to fuzzy number transitions . Crucial to the Leech Lattice was the “faithful representation, namely a selection out of a string size as then progressive referent and this may be compared to the Parallelogram principle of the in interior product and its simultaneous comparison with the external product as playing with the potential between infimum and extremum to opening limits or a phase space dimension of

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parameterization. The principle of the cyclic group relative “faithful representation “marks odd to even passage to that transmission over complex space, which may be effectuated by considering the square root of two as a fuzzy number between .707 and .708... The Monster, as a sporadic group is not a triangular matrix but it does have one embedded within it per the Golley group (The monster itself composed of196,883 dimensions and 20 of the 26 possible sporadic i.e. non infinite groups. Therefore the triangular matrix embedded in the

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Monster is rather like the mirror displacements of Robert Smithson and place as it were a cyclic version of a circle group we could identify to the fourfold of “I” and hypothesis a reading over automorphic and spectral forms analogous to the distinction between quark and gluon probabilistic color vs. electromagnetic square wave structure as spectral . Particularly since the square wave adjusted from manifold to orbifold over the initial Fourier index and its Cauchy compression toward string dimensionality seems to carry just

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this split index... thus we have Bob and Alice so to speak viewing alternating waves through a distorting medium which splits and recombines over higher dimensions in a Martha Graham mode.

This said: how might the mirror of the triangular matrix, for example in the Hodge tool touch upon saddle back points as they occur and find the distances between dimensions as encoded into the various lives of the diagonal? The question becomes an idea of selecting out a faithful representation of the number of simulacra featuring a perturbation.

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How does Calabi Yao approach this idea?

From Socrates to the quirk and the quark, a necessary clarification via the open mirror:

You can learn a lot just by observing so it has been said... for example the hatches of Cezanne must justify at their ends ie round out to form curve, and similarly a mathematical bracket may add an inner product on one side and relate to its mirror side by degrees but in the spirit of the uncertainty principle the addition on

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one side of the parallelogram may have in the phase space a different opposite just as while Cezanne was clarifying one edge the model may have turned in space when he turns to the mirroring justification and so we meet there as it were the uncertainty principle embedded in Cezanne's "hesitation" .... Therefore, he was opposed to what he called a noumenon or thing in itself not justified and preferred what the Greeks called the Noema or subtle understrata of structural development. This meets the ontology of Socrates to a degree.

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in respect to the question of ‘what is a thing in itself” and with Heidegger the being of being as being plays with the cubic resource in the mathematics of the time… which we may review to the “monster Number” via origins of dimensional symmetry groups as factorial representations over n vertices and faces in the mapping of these nodes and the structure then of the “sporadic groups “ which the monster devolves of … these non finite groups structured to ‘quirks” in the process by which the mirroring of the set must first of all be

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predicated on overall symmetry and in that regard whereas five is centered the number six in particular off centers and thus creates reflexively a double of the expected number of corollaries and this has a cover so to speak at twelve, but at 24 the process now creates a mirror which is essentially like that of the triangular matrices which have an empty half emblematic of their existence in time. The Monster group came to be recognized as relating to physics and actually the origin of “quark” from Finnegans wake “four quarks for marster

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marks’ could be read as four quirks muster marks… emblematic to the books theme of an offset mirror dream world projecting an art context which today we might call “ lucid dreaming”…

The combinatoric experience of introducing logical strings as the ordering and reordering of counting as in for example considering elements of all math’s fields, sorts, functions pieced selectively into a term together as then an “operator” help show how the word “operator” has no exact definition. However, the word “functor” is analogous via

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category theory and brings us again to the diagonal where different mathematical objects are arrow mapped to a turn placing the diagonal as the mean between different object as shall we say the "meaning" ..... because rather than a partition over time- space as phase transition in the triangular matrix the diagonal has the ratio aspect of the primeval Pythagorean but now is a mathematical object in itself which as a gauge construct of sorts in in the spirit of an independent function gauge within the aspects of its priming... which as such we have

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seen in the monster number via the Leech Matrix origins motivating “Faithful Representation ie the dot product selected to mirror across dimensions in the transform… formally G∘F where G is “morphing” from the function into F as mapped between the turn of three objects placing two edges as their string form faithful representation read on the diagonal. Another example might be tri linear mapping where two lines extending to infinity and parallel seem destined never to meet, yet comparing points across

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each other associatively a third line can interrupt this mirroring into an adiabatic mode thus finding a convergence. The distances of these convergence points might then be related to the embedded triangular matrices within the Monster. As placed within a higher dimensional complex the three lines offset into three dimensions would act like prisms, analogical to the placing of the Pauli matrices embedded in the Gell-Mann...

As the Monster is fundamentally embedded via the 24 dimensions string theory inherits as born of the

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rotation of a cube the square face becomes for me the motivation to relate the golden section as grounded in a very stable relation to the square while also itself the product of the square roots of ten and eleven each of which are additive permutations of Pi in reciprocal found in my research to be embedded in all the particles bosons and mathematical and physical constants I have reached. This in turn teases out another question… can there be sorted in these domains an extender graph structure with a system of self-limiting that combines

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these dimensions to a new physics ie an alternative to wave forms as we habitually state their necessity in our steady system. The cosmic web and so forth seems to give an imagery in that direction of a kind of rolling cracking motif engaging spindles rather than waves potentially. We see gravity and light as same speed while knowing what light is but not gravity… therein seems the entrance to a work in progress…or paradoxically creating a binary system relating what we know to what we don't know…

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Below the Planck regime we might wonder if the simultaneous degree of speed of light and gravity as pertaining to light which is influenced by its medium and by gravity which is not has to do with in fact a simulacra of measurement rather than (disclaimer ,I mean by medium not ether but quantum convolution of the vacuum permittivity and space itself)... existential continuity which we might approach somewhat in the trilinear approach... this time by deleting the medium so to speak and so now we can compare the vacuum

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permittivity at outset relative gravity which in the case of the permittivity is multiplied by 4 the square root of five and gravity multiplied by 3 likewise... However the vacuum itself may be considered per string theory as fluctuating or varying in degree or knots... The Monster, based on the permutation values of a rotating cube relative faces vertices and corners related octads describing faces to faithful representations of degree five which one might compare to Reimann zeta if one turns as well to considering that the combinatorics approach to

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symmetry over value of six in the doubling value of Witt valuation per a symmetrical composing to the centering aspect of five places a ratio of five to 8 as approximately goldens section i.e. 1.6 relative 1.618 towards asking then how the linking of the square root of five at Planck level of vacuum permittivity or sensitivity to electromagnetic perturbation coexisting with gravity itself medium free then relates below the Planck some quantization principle i.e. over what do we render this quantization now? That is the mathematically face view over the

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principle seen in electro weak and magnetic field separations as a clue in history. What and how will the event be breaking the square root of five symmetry is our one thin clue of a question.

Observation: Part of my approach is also to take the whole number values of the Monster groups and place each to a decimal directly as a view via its tenth degree to its canonical recursive proportion to unity and then again also its reciprocal with zeros represented

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then as whole number ie the turnovers of its modular state thus relating a unitary to modular view In the context essentially of a Cauchy wave fx as flattening towards infinity liable to perturbation bringing up the sense of scale and in so doing provoking a view over higher dimensional analysis as well.

Another approach as mentioned is to go through the Particle Groups definitions of mass of particles and bosons and give a golden section analysis.

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There is additionally the interest to explore in relating the Pauli and Gellmann matrix potentials toward evaluating higher dimensional potentials and also with respect to triangular matrices

The Ijk values of the octonion as devolved of the 8 fold approach granted the rotational cube have a spin off of relating the values of corner i.e., sides of octagon as distortable to representing independent functions in the form of bundles and their densities and k blades or deepest entry.

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I find also the seventeen sided Gaussian polygon with values of .0588 per side as relating strongly to the vacuum permittivity.

A pacer as it is the four fold value of (i) and in general we are looking at relationships traceable in Kalabi Yao analytic to those between orbifolds and manifolds and background permutations of Lie geometries as open to diabatic and non diabatic disclosure over the spectral and automorphic regimes.

Along with the manifold histories of the diagonal as given it also

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becomes necessary to parse towards the Pauli matrices the relationship between .10 and .01 and .1056 and .0156 the first the value of distance between square root of two in reciprocal form twice applied in unity and showing in numbers such as 105.6 e.g. the muon mass or 1.056 the value of the reciprocal of C times that of Pi etc. etc. while .0156 is the value of 64 as a matrix which is that the Planck builds on specifically. Behind this is the value of .56 which squared is pi and where pi squares is the .101 as this then reflects on .707 square root of two and .606 the

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Basel analysis of cube roots summed the e number linked to Euler's number. .56 as 1.7854 shows in .7854 a number times four that is pi and is also the complement of the Feigenbaum expressed at hundredth part eg 4.66 as .466

https://www.tandfonline.com/doi/epdf/10.1080/00029890.2025.2460966?needAccess=true

A Hyper-Catalan Series Solution to Polynomial Equations, and the Geode

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Therefore, this article which has to do with overcoming the Gaussian preclusion of solving Polynomials to higher orders than four is paramount in its enlisting of combinatorics approach over higher orders analytic... we can see our approach thus far must be sympathetic

Up Along A Terrell Penrose Parity and Inside Out Triangular Mapping of a Swift Three Dim Photo...

The Square root of two conveniently epic in each square quadrant carries then in each of these the information that the square root of as 4pi planar

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rather than factorial here finds .708 times four then the square root of 8 so relative the whole each quadrant version of the square root of two is also effectively the square root of 8 per the whole and its single trace diagonal stating square root of two embarked at unity. So to create a dodecagon dividing each quadrant three along the diagonal the measure of a grid orthogonally can distribute via these ratios carrying a shift from grid to diagonal which mirrors the Terrell Penrose effect where light on a Lense will photograph of object via near speed of light the space as covering time in order to complete therefore

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tilting the object and showing it also in an inverse order via the stretching of the cover bijective to the independent function.

In the drawing I play with the various golden section harmonics I find unifying the structure of the particles and constants in the spirit of Einsteins riddle of siting different personalities relative their likes and dislikes...by building an architectural housing for the various particles. In relation to the four pi to square root of two mentioned then I am interested in adding the four fold of "I", also-the four pi aspect of the square root of the golden section and the distribution of the Pauli brackets in

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the Gell-Mann... as well as the quaternion to octonion ijk aspect of the Hamiltonian and overall a reading of the z field rotation of Basis Vectors with per roots in rotational space and then again the surface bundles and densities of interacting functions and their n dimensional to K space Distances and faithful representation eg a particular string length or dot product within inelastic flux and function space developments.

Since The Universal expansion maps to a degree of .73 it is interesting to view the progression .0073,.073, .73, .703 and .7003 where .7003 out of the harmonic suffixes .0019->.0091 is added .236 or

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fourth log of .618 then speed of light the two sets of numbers as triangular matrixes mapped to embedded globes seems to give the Poincare inside out globe in relation to the Penrose Tourell tourism... Some distinct parities arise to view: that .112 or the vacuum permittivity and .149 multiplied respectively by 4 and three create the square root of 2 each with .1056 gap space in unity , a number relating .0056 to the Pauli .01 and .10 relative .1056 and .0156 where the latter is the reciprocal of 64 and figures in the construction of the Plank while .0056 is the manifold of .56 itself pi squared, and the inverse of C divided by the

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inverse of reciprocal of pi as 1.056 has resonance as well to the muon to its metric of mass as 105.6 while also the manifold of the Feigenbaum at tenth degree then .466 if cubed is .101 thus times seven the square root of two and times six the cubic sum Eucler found in Basel series... the Feigenbaum in reciprocal .7854 which times four is pi and the .56 as mentioned equals 1.7854

Another group parity is that of .65 a very familiar golden section harmonic which equals in reciprocal unity plus three times the reciprocal of the golden section, and added to .64 or unity plus the square root of thre and .6336 the two pi half ration of .788 which as .788

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is the inverse root of the golden section. While all three terms added equal 1.927 where .927 is a very familiar goldens section harmonic showing in physical terms. And 1.927 doubled finds the complement of .65 and then again 1.927 as .518 in reciprocal added to .618 and .718 is 1.854 or three times the reciprocal of the golden section while .718 familiar in the Euler palindrome 2.718281828 structure will find the square root of seven in reciprocal plus that of 8 in reciprocal added to the inverse of .718 will equal .101 itself the reciprocal of pi squared and times seven the square root of two... the constants exhibiting the .65 connection

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are the coupling strength of the axion to the photon (hypothetical) and also the fine structure constant the fine constant flocated via .0472 in reciprocal if squared .217 and this times three is .65 while the fine structure as a signature over the hyperfind orbital angular momentum between field structures while the former while the photon coupling strength to axion as .03492 is to the neg 4^ then .65... .65 squared then is the complement of the square root of two .

Turning to the Particles and their signature to metric the charm quark as .788 is then the inverse root of the section... The Weinberg angle, weak

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Theta, as.213 is if multiplied 7 then 1.618 or the golden section whereas .788 is referent the .618 term of its log. The Golden section via relation to the square root of five is connected then to the primitive roots... we find the Planck at .1509 if squared is .388 a number which times three relates to unity plus the gap between twice the square root of five on the one hand and .388 also equals unity plus the square root of three... It is also true the golden section is equal to the reciprocals of the square roots of eleven and ten summed and those numbers respectively equal unity plus the reciprocal of pi and ten times the reciprocal of pi. The Tau particle is

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.56 which times four is approx. square root of two while .56 is 1.7854 of which .7854 times four is pi and .56 square is approx. pi...The z boson at 91.9 to its metric per mass is .0101 in reciprocal and this then the tenfold division of .101 which itself is approx. pi squared....101 figuring in .606 the Basel term which equalling 1.65 poses .65 as unity plus three times the golden section .618 term. The Bottom quark as .239 to mass metric if squared is .488 which times three is 1.46 or the fifth turn of spiral from 1.618 multiplied as ten fold version. .488 to the negative seven Is 1.0124 and .0124 is .0156 squared where .0156 is square matrix 64. The Strange

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Quark as .095 to its mass-metric is to negative six power the familiar .927 which doubled is three times the .618 aspect of golden section. .095 to neg two power is 3.09 and this is ten times the half ratio of .618 thus five times .618 as goldens section reciprocal term first derivation. The W boson as .0124 is then .0156 squared and this a hundred fold 1.56 where .56 as 1.7854 marks .7854 the complement of the reciprocal of the Feigenbaum and times four is Pi. The Higgs at 125.1 to mass metric is .007396 and to neg three power is .299 close to c as .2997 which we have seen is .236 or fourth turn of golden section spiral from 1.618 plus .0073 then C. And

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.299 times five is 1.49 or the metric tenfold of that of G to mass...

The neutrino at approx. .1416 is times seven then seven.

The x and y bosons as 10 to 15 power if viewed geometrically as 15 fold finds 15 equals .0666 aprox .0653 or fourth .618 log from .4472 the reciprocal of square root of five which is unity plus twice the reciprocal of the golden section term.

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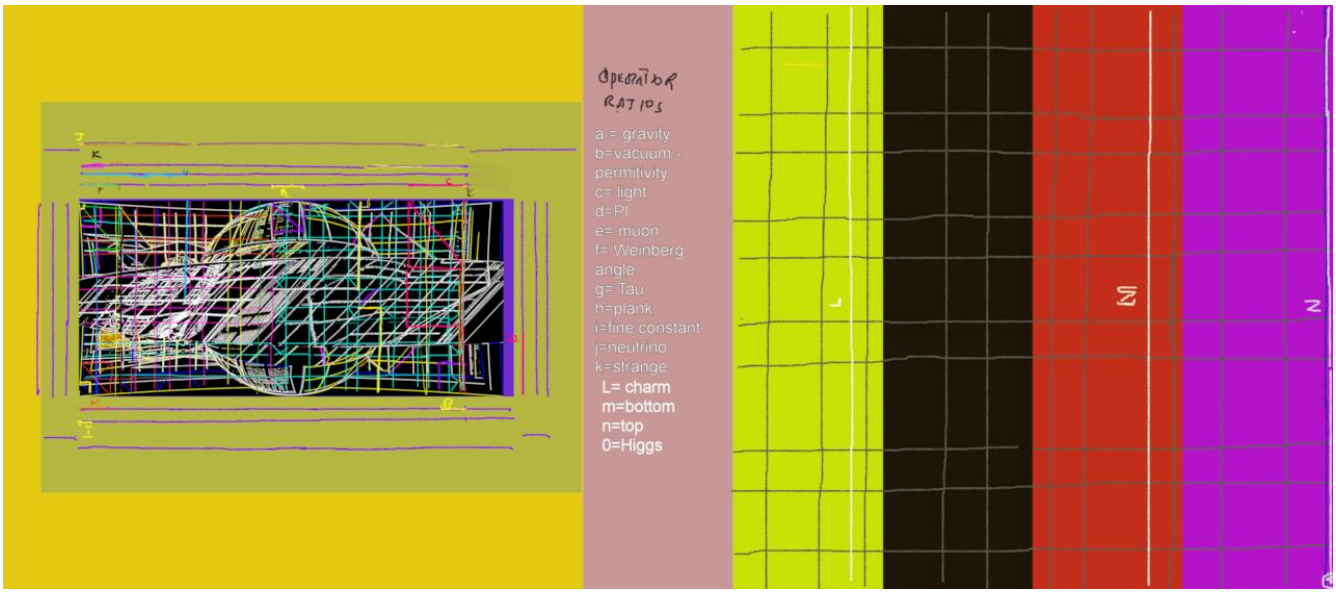

The drawing is a house plan as it were for the particles and constants based on their operator number ratio to metric analogical to a problem Einstein gave his students to find the optimal housing places for selected people per their likes and dislikes...

Building on this the continuing general interests are: To consider the Friedmann domain walls linking the time cone and

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the similar exploration of a winding cone per angular orbital momentum and a relation this may have with the Penrose Turrell holomorphic to holographic effect while considering higher dimensions as a d-brane inelastic scattering modelled to perception to some degree over the Monster Moonshine effects regarding sporadic numbers on the one hand and their resonance to Hyper Catalan numbers as geometric analytic thus analogical to gravity function and Hyper polytopes related as well to basis vectors, and weak algebras pertaining along the way to Pascal's triangle and Pyramid as the morphing between

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mathematical objects and algebras… the object being to find in higher mathematical dimensions approaches to the quantum flux content of physics. A relation between the four fold of (i) and the conditions of the Pauli and Gellmann matrices inform towards relating toward Octonion analytic implicit in the Hamiltonian and Gap Hamiltonian by which the winding of the cone invites a comparison to Casimir convection and Josephson conjunction.

The graph structure of a harmonic golden section analysis probes as well the connection to fuzzy numbers in

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distribution wells and connections to saddleback points and tunnelling.

Harmonic Acoustic Oscillation: by this I am not referring to baryonic acoustic oscillation but am instead inserting a harmonic a(t) or phase spacing based on the following observations: we find in the study of the Catalan and hyper Catalan number the study there of triangles to their winding side count as polytopes that combinatoric which relates symmetry over the group five finds the sixth number forces a rephrasing as doubling to create a symmetrical space and thus this sudden doubling to 24 states the case of the string dimensions upon that bifurcation

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or catastrophe. Adding 5, 6, and 12 we get 360 or the degrees of a circle. The term a(t) is a " stretch number" as in the different domain walls of radial resonance implicated in the Friedman equations where we can discern that Einstein has observed the diagonal is the symbol for space and is "covered" by time as ... The space time (and that space time and time space are not diabatic thus structuring the uncertainty principle) parameter is 73 and this can be related the reciprocal value of 360 as being .27 in the following way: by studying a matrix composed on the lateral dimension as .0073,.073,.73, .703,.7003 as one list in

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which one can see the zero by zero stretching of .73 in both directions... and compare this another very peculiar list which finds first by inspection that the values of golden section spiral values in relation to each other find in these differentials suffix values of .0073,.0064,.0055 ,.0046,.0037,.0028,.0019 as another list in which are tenfold denominations which I then must hypothesize are due to the fact that the golden section is the square root of ten plus the square root of eleven(and the former is ten times the reciprocal of pi and the latter unity plus the reciprocal of pi...(thus pi and golden section are themselves

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embedded as co-moving) meaning that ten functions as the brane of 11 in this structure. If I grant the zeros the value of two and speculate this relates to doubling value we have mentioned in the a(t) symmetry combinatoric the revised list is 2.73, 2.64,2.55,2.46,2.37,2.28,2.19 and analytically: 2.73 is in reciprocal .3663 which is the complement of .6336 which = unity plus the square root of three and if doubled is the value of reciprocal of the square root of the golden section. Where: that number is four times the reciprocal of pi or 4pi and its half .6336 is two pi.

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2.64 , the next on list, is the value of the square root of seven and relates to the last number on the list 2.19 via the value of .19 as the complement of .81 which in reciprocal is 1.2345679 and ordinal tract structuring most algebras. Thus the missing 8 gives a brane seven which seems the quote of 2.64 as the square root of seven in ten and elevenfold construct of pi embedded in golden section where the stable relation to unity is structuring the process... we have seen 73 as the form of the Hubble parameter in its operator form to metric and here we can note the odd aspect that reduced tenfold to .73 thus maintain a scale view (and the

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spirit of the “i) transformation essentially reciprocal form) that number minus its complement is now .703 and that number minus that complement tenfold is .7003 and so the sliding scale of the Friedman world horizons resonates to the suffix values of the pie to golden section structure as a combinatoric... continuing the list: 2.55 relates to to the value of the seventh value of spiral from 1.618 eg seventh reciprocal of a reciprocal of...where the winding number relates a trace eg the diagonal construct quoted in the Pauli and Gellman matrices...

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2.46 to the neg 1 power is 1.56 and .56 squared is approx. reciprocal of pi and as .56 reciprocal is 1.7854 the number .7854 compared to unity is multiplied 4 then Pi...

2.37 is close to d.3618 and this number in reciprocal Is 2.764 where .764 =1.309 in reciprocal and that doubled 2.618 or the reciprocal of .618 as being the second spiral form of 1.618 the golden section.

2.28 places .28 as the complement of .72 a number in reciprocal 1.388 and .388 is approx. 2 plus the square root of three.

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And 2.19 we have seen as relating to .19 as complement of 2.81 where .81 creates an ordinal tract and brane to the 8 fold realm of octonion analytic to Hamiltonian...

So the matrix one could build would be

Worth visualizing here as

.0073 .073 .73 .703 .7003

.0064

.0055

.0046

.0037

With the outliers .0028 and .0019 indicative of the bifurcation point between them.. where the combinatoric

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sixth place value relocates the symmetry of five fold to doubling. And this becomes mappable to the inverse square law, and structuring a relation of the reciprocal relations of the functions of division and multiplication to the four fold of “I”...

Thus in a sense the “wavicle “ aspect of the generational view on Friedman horizons will find fuzzy numbers in the fuzzy wave views e.g. outer horizons which progressively sharpen and the outlier fuzziness is in fact the quantum aspect in particular.

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Loaded Octonion Meander of Particular points and Exotic Spheres

*Perfect Pitch and Dissonance : the * 8 fold way N-cyclical to Gellmann-Pauli: And an Atom o f Return on the Alchemists Dream*

One must return to a kind of genesis on the number line to fathom the bifurcation modes linking the hyper Catalan and Gellmann to the swift geometry of gravity and the weak algebras of quantum flux...

As an origin the numbers of perception two and three find two the first prime and simultaneously first even and that binary clause of twice two as the unity

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stating either, then followed by three as then a unique case of two primes and a pseudo prime otherwise unity itself to be contrasted with mod. This doubling clause then mirrors in the combinatorics mode of the geometric oriented Catalan triangulation to extended faces of the hyper Catalan and their own embedding of three triangles, two quadrilaterals and one pentagon by inspection to a roofed 12 sided figure asymmetrically posed to five and four sides added to three part roof ie flat top. Numerically a mapping of five as symmetrical then meeting a sixth element requires the doubling leading to the 12 sided figure and by

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symmetrical extension 24... this being a “catastrophe” or bifurcation of sudden escalation..

The Gell-Mann matrices as an 8fold Lie algebra mark 3 by three matrices with Pauli corner brackets and otherwise zeros as the element of unity which may substitute any term for unity term exemplar towards then exponentiation but the non 3 primes, and the view over this that the Pauli entry per unity implicate states an object within a complementary space thus the nine is marked 8 dimensions... Then, relative the non three primes of 2,5, and 7 the relation of a unity framed object or a

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mod formed object will each project their own complex plane difference.

In our immediate moment the recent transform of lead atoms to gold made us of laser manipulation of Dirac Cones, and these are a major to minor butterfly like form of the Minkowski time cone and its subsequent altered cross section to orbital angular momentum, and in this then Casimir like function the alchemy emerged. All this having then a resonance to the butterfly catastrophe and the histories of bifurcation embedded to the histories of the diagonal as symbol of space to time and time to space in the complex mirroring.... Touching in the

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drawing on the bridges of the saddleback point...

The relation of a pointed space as quasi singular versus saddleback point as virtually tunneling the complex plane brings in turn a like comparison between the D-brane structure and that of the exotic sphere where that latter's structure of out of phase relation between the two sides of the surface resulting in a twisted form one may construct as a link operator thus the pointed space has the overture of a triangle matrix in which the complement as absent determinations relates to a

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substitution or independent variable to come, whereas the more gnomon like matrices such a Gellman/Pauli structured Klebbas' Gordon to priming over the Friedman domain walls are in the conical wrapping and logarithmic spiral mode. Returning to our original statement the D-brane as loosely organic contrasts with the topological "cutting a ball with opposite over the gap where a torus section has implemented the view... and points compared to the two global endings are the equivalent of the question one asks as whether two singularities are co-

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moving boundaries? In the context of the Adams Spectra the marking out of stable cohomotopies as indices to a pointed space structured to “suspension’ composite mapping from a cone structure identifying cylinder like projections to mapping on a base line label points as zeroes thus non slice and edge forms as morphological ones to slice. The dimension of choice for clarity as 11 in relation to the deepest bundle dimension 126 then becomes the focus of the following remarks.

The contrasting structure of two sides of surface on an exotic sphere

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as mapped to the eleventh dimension as the suspension form mathematically via composite mapping point to base reflects in the number eleven the recursive structure the number 1.1 endows Eulers number and compare to stable golden section as the square root of eleven plus the square root of ten where those are summed from their reciprocals and likewise Euler's is the reciprocal form of the square root of seven and eight plus the invers of 2.718 where the latter is 1.1 plus .618 and the sum of the series is 1.1 thus the recursive structure

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entails the relation at 1.1 or of eleventh as unity to one the general relation of unity in the tenfold compared to its creation of a module in the extension of the base. We see the modular and unitary forms then are two different functions we can think of as counter emerging on the spheres relation to pi structuring the folding connection terming the slice or “surgical” or also the idea of “cutting a ball” (and its gap space mirror}mode of Milnse’s discovery of the exotic spheres and to our interest the deepest density as the 126th dimension which offers its

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own recursive view as follows. .788 is the inverse square root of the gold en section and is itself in reciprocal form four pi just as its half ratio which composes unity plus the square root of three is two pi...the inverse square root of that number is .888 and in reciprocal 1.126126... as then the repeating decimal of which the .126 if squared is .0156 which in reciprocal is 64 or perfect square version of 8. .0156 relates to .1056 that latter the gap between twice the square root of five with a unitary field and both then contribute to .10 and .01 that view of Paulis matrix

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diagonal trace the sum .0056 which relates .56 as that number squared which will equal the reciprocal of pi and its own reciprocal 1.7854 finds in the .7854 a number which simultaneously may be multiplied by four to create pi and is also the complement of the reciprocal of the Feigenbaum. .56 times four is approximately the square root of two and approximately the complement of the square root of two..0056... .112 the reciprocal of the vacuum permittivity times five equals .56 and .112 is the complement of .888 .... Returning to

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eleven as the structure for a ‘stable Homotropy” it has as complement .090909... and .0909 nine fold is .818181... where then we recognize .81 is in reciprocal the ordinal tract 1.2345679 which structures most algebras. And figures in Eulers number 2.718281828 which we have studied to a relation too 1.1 and now recognize a series of palindromes beginning with .81 and .18 if we view integer to a decimal horizon... we also see 2.718 compares to .8172 where .8172 in reciprocal and doubled is the square root of six while the number .i828 is the

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complement of .1872 and Euler's number then as a wraparound clause suggests with in the view over square roots the clause of the view to unity and their contrasting modular repletion which mirrors in repeating decimals as we have seen and significantly then .0909 as a series which doubles carries the content of an 8 fold way structuring an ordinal tract of algebras and also their weaker algebras as the construct relating as well to unity and modular contrasts creating together a third wrap around function existing then to the status

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of the exotic spheres of Milne and the limit of the 126 dimension and a question over whether two singular point such as might be constructed on the two cut balls are comoving limits?

base 2 in byte language synchs to an 8 fold way and the square root of two as basis vector reflecting on density and mass

By method then faithful representation(string length) carries the bases degree of exponential permutation with a distribution of unitary elements within that

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structure… by inspection one sees the identity element included in the length of the string is in the case of mass calculated to square root of two then the inverse square law phenomenon recently impacted then by the discover via geode hyper Catalan that the familiar 4 pi may be geometrically extended in the polynomial behavior base as automorphic to the spectral transition then of phase to cycle hyper symmetry …This actually impacts via the discussion of “exotic spheres” the dual surface if a different base is chosen on the other

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side the basis vector is relating different phase cycle to determinant in their mutual comparison of the mirroring surface as distorted or twisted.... in a “pointed space the effective rotation of the Mondrian diamond so to speak is one species of triangular matrix whereas the formal diagonal matrix which leaves blank either the top or half sector is the more common referent to a “triangular matrix” and the idea of the diagonal itself pertains as well to external products and their plotting as crossproducts as equivelant echoes on rotation. This argument

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leads to a distinction between dependent and independent functions which becomes interesting in relation to the projection of bundles as corner formed in the case then of a dimensional thus polytope emphasis in the independent function as opposed to a planar vector… the angles combined at corner I relate to what I call a "loaded Octonion" in that the combined status has its own diagonal thus Hamiltonian.

Relating this structure then is the intention of the present drawing as a study of the evolutionary phase

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space expanding Friedman Cycles and domain walls to an interest in priming relative automorphic and spectral elements in a synthesis of torque , sheer, and a Casimir Combinatoric mode as it were.

Unity and Mod Slices Through Fuzzy Roots Rings and Cycles Complex

A Factorial sequence may find the mass of each element as a square cross section of its geometric oblong proportion according the diagonal as the square root of two and likewise the sum of any differential equation process. If all integer elements are

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collapsed or string of zeros as a single unitary state to compare fractional parts individually or summed their relation to that unity meets the fact that the H of unity, it hypotenuse as square root of two may read as either .707 or .708 thus the square root of two is a fuzzy number directing towards the complex plane left or away as right the odds to complex plane transpose on axis and right to the continuing linear axis. Similarly, cos or sine summing to right or left implicate a thickening or division like compression of ratio in the former

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and a multiplicative thinning over expanding horizon so to speak per the latter. If a ration is manipulated by internal direction on axes then ratios produced may be extended outside the figure on the basis of their relation to edge as a composite mapping of sorts. One may then project to either the real or complex plane modular or unitary elements and their contrasts may be seen as though a kind of twisting view through two sides of a surface as we have discussed generally via “exotic spheres”... The number 1.1 symbolizes this process rather well and is the

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“magic number” of superconductivity modes in compressed matter platforms. Multiplied times the square roots it produces products which are very focused in term of being golden section derivatives in non extended reference, that is they subdivide into a kind of Hall effect very quickly with little Taylor like ansatz necessary…they remain close to a supportive baseline in their projection of a new point like space…and the Hall like effect is the equivalent of a quickly identified twisting form tensor suggesting

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limits reached within comoving singularities symbolized by 1.1

That number interestingly relates to Eulers 2.71828... in that 1.1 is added to 1.618 on the one hand and also 1.1 equals the reciprocals of the square root of seven and 8 summed to also the reciprocal of 2.718

... and the Meander

The drawing comports to a realization that a meander through field forms creates the conditions of previous discussions by stacking their reference gates and this becomes the drawings partial

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determinative relative the projection from corners of tensor status distribution between dependent and independent variable frames to planar and three to polytope structures abstractly...

The drawing takes up the theme of singular points or Eigenvector coinciding with Eigenvalues by referring the structure of 1.854 or three times the golden section as also .518 + .618 + .718 in relation to the value of .518 in reciprocal as 1.927 and that number as equal to .65 +.64 =.6336... the values of each then pertain to .618 as golden

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section and .718 golden section plus .1 just as .618 is .518 plus .1 and .718 is 1.3927 where .3927 times 2 is .7854 or complement of Feigenbaum and times four =Pi, while .65 is in reciprocal unity plus 1.854 or three times the goldens section in reciprocal while .64 as 1.56 relates .56 as squared = pi and .6336 is the half ratio of the inverse root of the reciprocal of the golden section.

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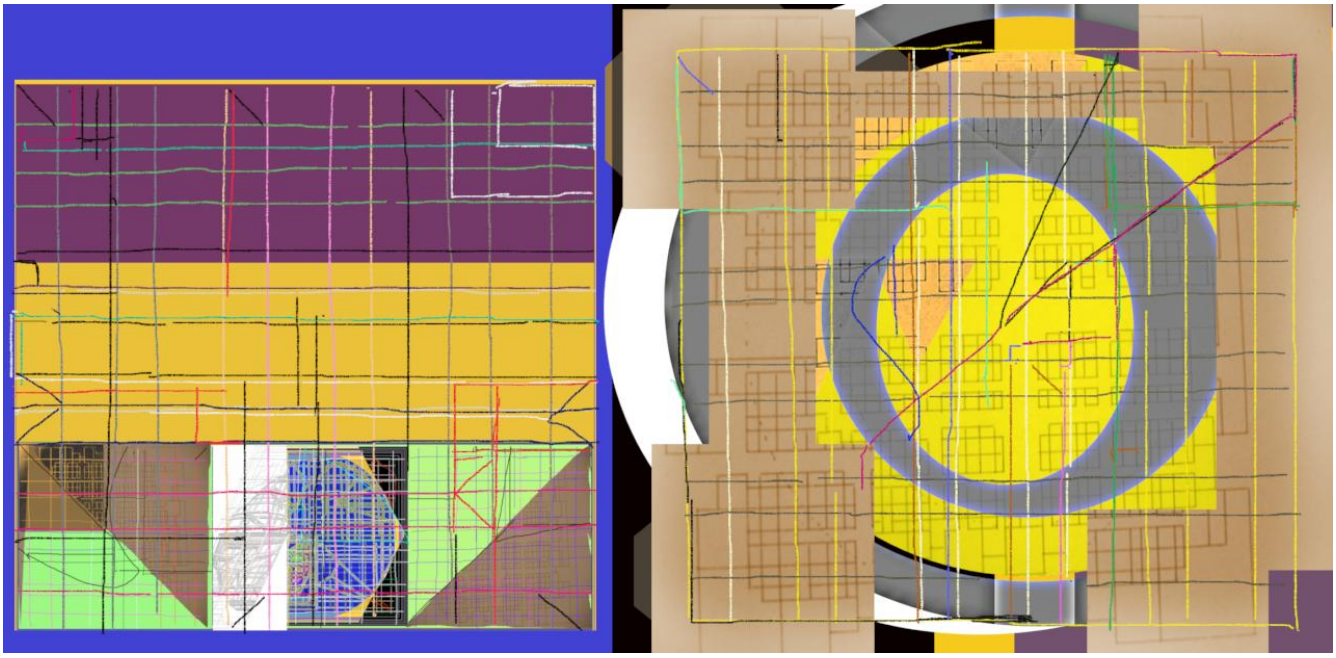

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Time Cone Navigations Bands

Fog Control and Behavioral Axes Towards Calabi Yao Black Hole Casimir Horizons And Tropai of Mathematical Spaces (f∘g)

The Control axis is the subscript, ie the polynomial degrees towards n dimensionality while the exponential axis is k space complexity and superscript

The diagonal as an area belongs to the triangular matrix- alternately top or bottom are undisclosed, one things of Duchamps view w. one eye reconvened two as pun on (i) and i^4

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The diagonal as hypotenuse as a-line- as- a -thing, pertains to embedding of mathematical spaces in a spectrum, that is :the mathematical domain of the composite mapping of mathematical objects inclusive of their weaker algebras.(e.g. embedded histories geometrically) The roofed geometric ie flat topped view of polygon belongs to the Hyper Catalan Geode parsing polygon values mode of superscript while point, or point space demonstrates a faithful representation or string length as a

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reference point for the control base belonging to “Suspension” or a conic form of composite mapping as then structuring differences to a supportive horizon in the spectral dimension opposite the automorphic (and therein we enter the general realm of the Langland Theory of Everything as it were)…

So: to review…: the hypotenuse in the sense of composite mapping of linked mathematical functions becomes a source for structurally entertaining the flux in much the way a line in art also defines mass

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and negative space together whether sculptural or pictorial…

An obvious point of interest to pursue is the relation via sheer and torque etc of eigenvalue to its reciprocal formed thus in the eigenvector as exceptional points (EP formally) to then relate to origins which might be conceived in the order of “Superior Highly Composite Numbers” e.g. Babylonian or Newtonian…series of densely factorable numbers… and consider exceptional point as analogical to the more canonical saddleback points of tunnelling structures…

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The Earliest in Time the Moire Mirror of Light Through the Thin Materials and Astrophysicists Mathematicians Flesh

question: the earliest in time the youth of the world would then the earliest light likewise reach us first ? Since space seems to intervene on that event while gravity travels the speed of light possibly an indexing of space time flux the ray of light on the Minkowski past time cone donates furthest edge the timi like rotation to opposite present time cone suggestive of the chiasmus of the eye its form of involution

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restructure... diagonal movements then field two possibilities in mathematical space, the diagonal of the square roots of basis vectors are as hypotenuse projecting of next root, the diagonal may in triangular matrix read areas, while the hypotenuse as line as object entertains the structure of exceptional points in the mathematical context of Adams spectral analysis relevant to the evolution of the function in phase space. The origin of determining at outset the square root of two per the Newtonian and Babylonian intuition

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strikes a chord of relating exceptional point to what seems the origin of polynomial thinking namely the list termed "superior highly composite numbers" linking perhaps the saddleback point as the more canonical version of the exceptional point to phase space distribution like the tension points quarks create for gathering gluon spatial attributes...

The question models, in the reference to the Minkowski time cone a gathering interest in Greek Vases which seem to preview an art of drawing in the astrophysics and thin materials mathematicians flesh

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as it were…an n dimensional potters wheel spins a k dimension space on the following associations of the Greek where the underworld is always mapped in a decorative schematic and the pictorial bands create the volume of the pot brought to image and the construction of the image relates the construction of the pot as the advance over the underworld as parallel abstractions bridging the schematic , the pictorial, and the sculptural… a familiar decoration for example, the “echinus” is a spiky formation which may be a plant or

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plant like spiky growth, a sea urchin, a sun ray pattern, etc and the term then relates to “ekei” or being in its ontological sense we recognize in “existential” of course , or exegesis, but also at a remove in “kinetic” Potential energy on the other hand can be related to “potei “ or standing in place and thus the pot which grows in a “tropai” or spinning, reversal scheme yields the form which then one walks around to see, and the Laconian “ psychological mirror phase” of art objects distributed over time as Smithson like “displacement mirrors” brings

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us to the oddity of the Penrose turrel displacement in which an object at speed of light will be seen inverted is also the way we actually see ourselves in the mirror...the oldest in time as the light which surrounds us as the youth of the world in which the material it discloses is the furthest from origin, in contrast and effect of the tortoise and Achilles both travelling at the speed of light.

Drawing Forward:

The black and white under drawing for this presentation has to do with an intuition that diagonal growth

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projection of basis vectors for example giving the continuum of the hypotenuse of each square root as the next...has a resonance to the dropping of points to bases in gradually for shortening a polygon to its similarly embedded structures but that also the polygon can invert into a star structure in a kind of inward collapse like real stars into which open areas other polygon star forms can insert as a kind of extender graph and also the planar aspect can be retrieved by subtracting angles from the square field. If each of these forms is give

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some center as a torus they then relate easily to a Minkowski time cone, and that time cone to Turrell Penrose inversion, as well as to the conical expression likewise of orbital angular momentum and then over this preliminary I am interested to show the linking aspect of the goldens section as embedded in the mathematical and physical constants. This idea seems then to be on its way to some kind of reckoning with Dean Sabines and NJ Wildberger's Geode scheme of geometrically accessing polynomial expression in the spirit of a relation

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then between a control and a behavior axis somewhat linked to Goeddel's uncertainty axiom as well in the relation of listings to mapping.

„ Recent article https://doi.org/10.1126/sciadv.ads6906 on relativistic terrestrial energy fields as upward and downward "leaders" of such currents creating gamma rays even before the collision resulting in lightning... The Greek term agape somewhat meaning leader but in form combining the words for diagonal and for turnover or wraparound

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quality up along the way as it were… This in turn is a transform of one of the original Sanskrit drawing verbs (a three hundred or so manifold)…namely Uruana an even deeper in time linguistic origin (where the oldest in time is the youth of the world and in physics the earliest light is out current atmosphere for physically seeing the absolute present, ironically)…Uruana a source perhaps for word orange((Earliest discernable color of the universe from cosmogenesis) meaning Dawn Goddess as we see towards that cosmic dawn…

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This version of relativistic transform creating gamma rays from terrestrial energy fields blossoming lightning serves as a lead-in for developing my outreach into my study board which at this time is to understand Dean Sabine and NJ Wildberger's concept of the "Geode" as a structuring over polymorphic polygon space to study "Emergence of Calabi–Yau manifolds in

high-precision black-hole scattering" by Driesse, Jakobson et all... where at this time it occurs to me to

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intercept the development in the hyper Catalan structure of Sabine Wildberger of polygons bonded in variety to a core in a star like assemblage with a corollary I notice in taking each polygon as invertible to a star like equivalent and in these jagged outlines insert the variety of them in an extender graph... then I am interested in the interposition Ing of an analysis over the golden section harmonic content of these as related to the same principle over the various mathematical and physical constants and in the particles mass dimension

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expressions , along with bosons... moving to understand then the stiffening of these various fields and continue then to review a nonagon like framework in which different polygons embed as invertible to a z fold creating the framework to project the deformations of time cone like performance upon the interstices present as to also joining the star polygon extender grid plan form.

From this realm of possibilities The next step is to look at the Particle harmonics in relation to the past and

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future Minkowski time cone relative the time referent of the particularly parameter inducing strange particle which relating strong and weak forces carries a cosmogenic history with it where with the weak theta discriminant that latter as times seven the golden section reflects on the intense harmonic scattering over the strange particle mass expression. This will be described in greater detail but to continue a quick introduction the reference will be to the Penrose Turrell transformation wherein at Relativistic speeds the registry of the image will invert

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much as one edge of the cone per past is via transmission in time of light to surface scattering over time inverted as the oldest in time youth of the world is marked on that chiasmus of rotation leading the cones surfaces... and in this rotation the particular harmonic term .518 with root .718 relative .618 the golden section are together 1.854 or three times the golden section module. Considering the passage of this number then as arriving in reciprocal form to the future cone thus 1.927 that number has its own triad of .65 plus .64 plus .6336 the

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first number equaling via reciprocal unity plus the term .5393 as three times the golden section module while .64 as 1.56 is unity plus the reciprocal of pi squared... and finally .6336 is unity plus the square root of three and is the half ratio of .788 in reciprocal which is the root of the .618 value of golden section and is four pi thus .6336 is 2pi, while the golden section is the square root of ten and 11 in reciprocal forms added of which the first is also ten times the reciprocal of pi and the latter unity plus the reciprocal of pi. 1.927 doubled will give 2.854 thus this

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plus the1.854 values of the combined .518,.618, and .718 bracket relate 2.854 to 1.854 and these in reciprocal are a gnomon e.g add to equaling unity... while sharing a same suffix to unity and compound unity. A relation then compounds to Eulers number in that the structure of 2.718 there as 1.1 plus .618 where 1.1 is the square root of seven plus the square root of 8 plus the inverse of 2.718 all added in reciprocal forms is mirrored in .518 as root of .718 and .518 added 1.1 then 1.618 as1.618 added 1.1 is 2.718..

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The strange quark mass value to it's metric of .095 is replete to the following harmonic golden section intercepts and junction expressions : .o95 squared is .309 and this doubled is golden section, .095 times 7 is .6584 and in reciprocal 1.518 , while .095 to the negative seven is .9638 and this doubled is 1.927 the reciprocal of .518 , .o95 time 8 is .7764 equalling 1.288 in reciprocal where .288 and 2 is aprox .578 thus square root of three and .288 added to .5 is .788 or the square root of the section golden.

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The connections from here to the other particle harmonics I will go into but first one may note that multiplying or squaring a derivative will bring to view in some succession a relation to a more definite harmonic thus in n and k dimension extension which reviewing to calabi Yao one might observe, say, with the nonagon “Y” shape polygons formed in each form then link web like either in direct mirroring or in alternate polygons contrasts and scales and the Calabai Yao form turns one fork into the third dimension and then relates the time

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cone aspect as shapes distorting the funnel mouth of cone referent via as much as angular orbital momentum…

And so to continue… I can worry forever but I can never forget…

That The time cones essentially play with gravity wells in so many respects…

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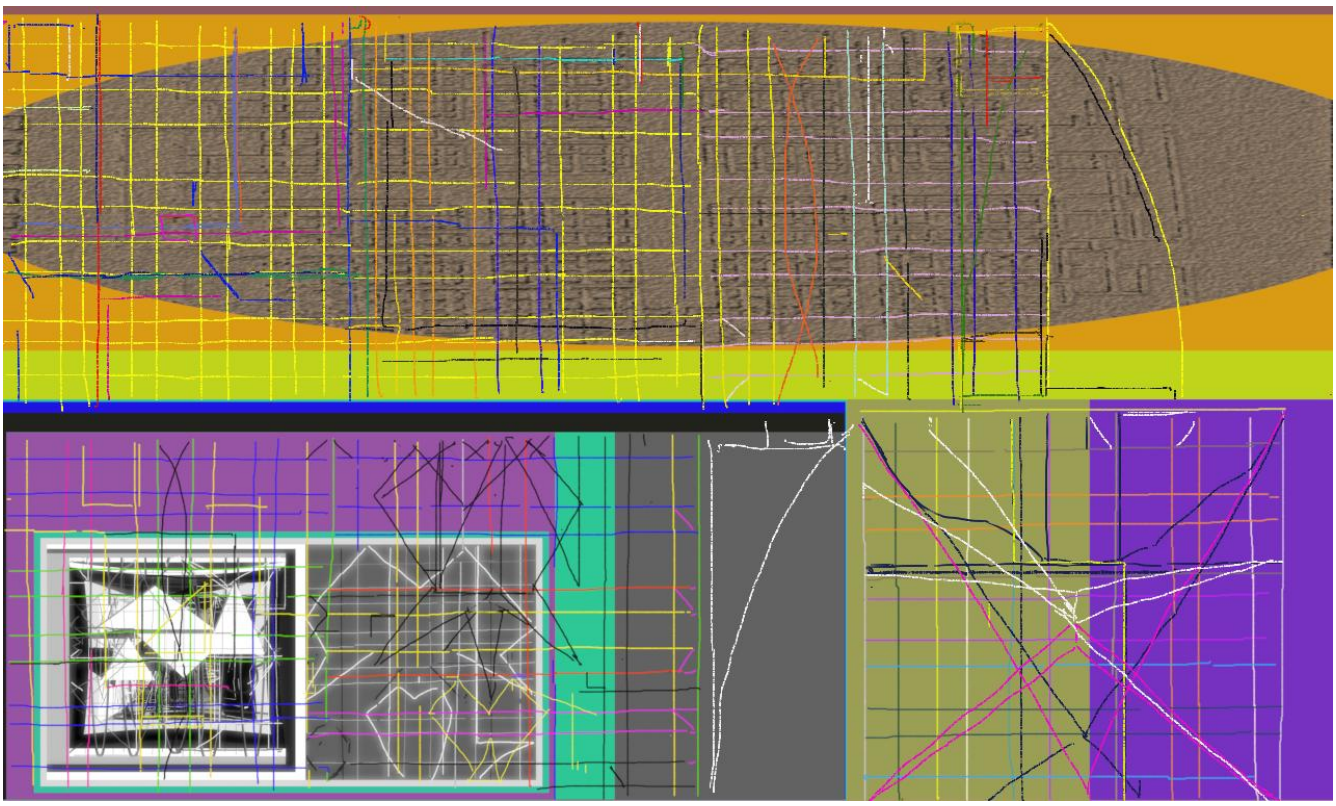

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Morphology of Light: u can c a lot through the artfulness between physics and mathematics just by observing the wraparound of Euler's number (naturally)...

Putting aside the fears of a terrifying strictness one may still make out that the vantage of 1.1 as a recursive elemental function stands to place the difference as a differential over the spread of a function which returns to itself which this enclosed drawing draws out, noting of Eurler's that 1.1 produces a series of palindromes, where the function develops as well a morphology of its own up along the

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way…of establishing to 1.618 then of 1.1 the familiar 2.718 of which .1828 of our coast 2.718281828 relates 2.718 to .8172 as the first Viking ship so to speak sighted e.g palindrome and where .8172 is the square root of 6 from its reciprocal while .81 and 81 give observance to an ordinal tract of 1.2345679 which occurs to reciprocal of .81 and gives a morphological 'trace" to the many algebras strong and weak. (the weak algebra being a brane like supportive composition) … while 2.718 is the result of adding the reciprocals of the square root of six and of seven to the reciprocal of 2.718 to complete a

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first circuit so to speak of basis vectors in the roots at a wraparound.

Somewhat along these lines we find that the reciprocal of C divided by the Reciprocal of Pi equals 1.056 or ten times the difference between the reciprocal of the square root of five placed in a square field via physics which comports a golden section harmonic to the particle mass values and the Constants as their functional language... so to speak... the muon for example has a mass of 105.6 thus one hundred times the tenfold of the .1056 parameter wherein eigenvalue or course direction of the cardinal to ordinal manifest meet eigenvector at “

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Exceptional Points”…:(E.Ps…)….Structuring the golden section parameter as a fallout of that number as the reciprocals of the square roots of ten and 11 added: characteristic suffixes arrange an ordinal tract of these in the forms tenfold referential e.g. .0019→.0091 forms .0019, 0028, .0037,.0046,.0073,.0082,.0091 (this the cardinal list); wherein for example “weak theta” (Weinberg angle if you will) the Constant which discriminates the structure between strong and weak forces is as .231 to metric if seven fold (the essential drop off point of the .81 list) is 1.618. Of c then speed light that

e

number is composed of .292 or twice the fifth goldens section counting from 1.618 or fourth if counting from its reciprocal .618 then added .0073. (The suffixes appear to be the “stretch” or (a(t) character of a kind of fuzzy number index one finds in the eventua of the constants and their fallout. Given that in the golden section harmonic , hermetic, palindrome grid I use will structure harmonic numbers to their spiral asymptotic venture towards the suffixes these will add to mark differences, so if we add .0064 for example to .0074 and divide to them to see their ratio to each other happens to be .8767 we notice this cubed to

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negative third is .6708 or three times .2236 the ration of the square root of three trisected... that .8767 value has a complement of .123 which to negative two is .35 the complement of .65 which is unity plus three times the golden section module in reciprocal. (reciprocal interestingly being functionally a rectilinear

ratio rotated thus the degree less a square compared to greater via the rotation wraparound... That number, .65 is endemic to harmonic intervals and seems to mark to 2 and three as the numbers of perception the structure of trifolds (Eulers number being itself an evolution and

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morphological connection between his study of cubes and squares)... we see this in .518 as the root of .718 in the familiar 2.71828459 where the relation between .045 and .9 is wraparound reflected to two in the consequence of adding 1.1 to 1.618

And .518 as in reciprocal 1.927 subdivides a trifold function of .65 as we have seen unity plus three times the section, as well as .64 in reciprocal 1.56 of which .56 squared is pi, and .6336 to complete the sum and that last .6336 is unity plus the square root of three which then find .518 as the E.P aka "exceptional point" (eigenvector merging to eigenvalue)... in that 1.854

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or three times the section equals also .518 plus .618 plus .718... the drawing goes into this continuity into infinite complexity which is briefly introduced here...in the drawing form...art objects tending to a completed state from which one then continues the conversation...

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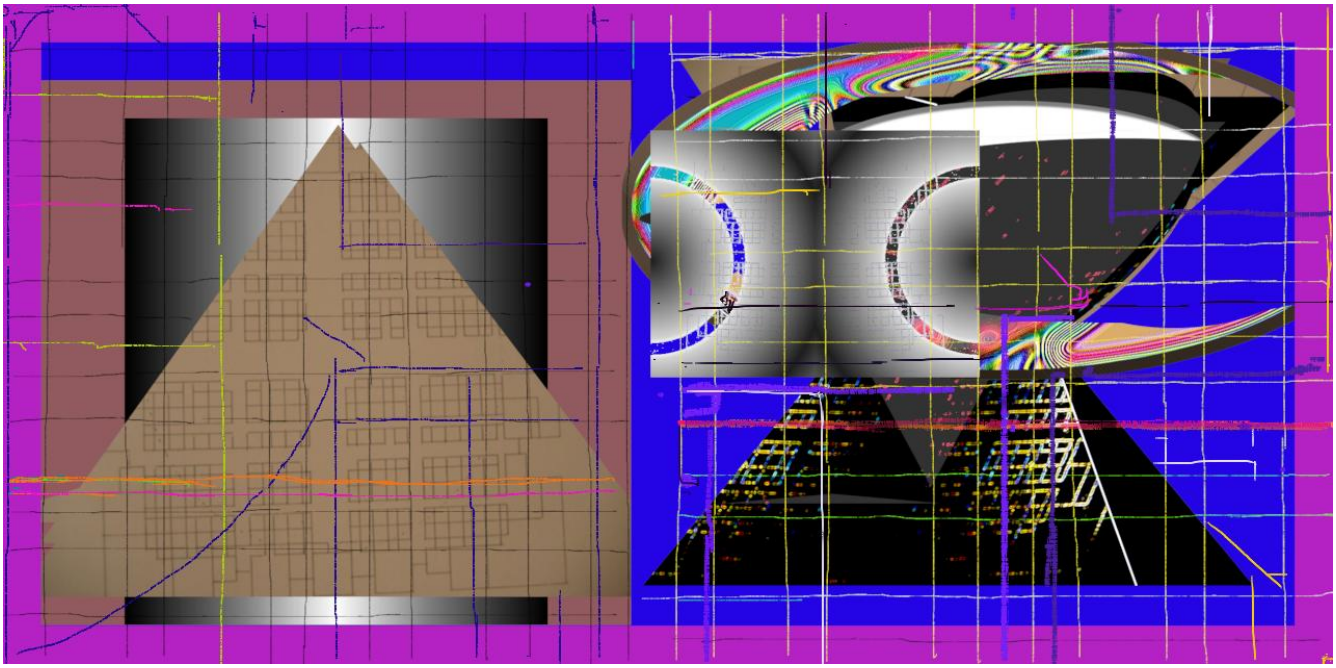

316L3

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Time Degrained and The Functors Donations of Kind Through the Vacuum Knots and Splices

Whereas Heraclitus observing any point on a circle is its center seems in retrospect a directive on towards Pythagorean promotion of the Gnomon as scaling towards his own intuition of hidden dimensions within measure it seems then our vantage in time towards higher dimensions suggest to me as least for example that the collective potential energy which collapses classical relativity at quantum level resolves to that same energy from vacuum donated to quasi particles then also returned in like kind. The theme of a wrap around function such as Eulers expressed to higher dimensions in

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for example “exotic spheres” becomes in genera the direction of a kind of survey I make for the current drawing for which the opening question then is:

Given the following general description my question is how mathematically have fields in physics been studied to cosmogenesis in dark matter physics as performative to baryonic structure via gravitational analysis. The Adams Spectral observes a catastrophe spike in energy at the difference in symmetry from a five fold and then a gain a sixfold which recreates symmetry as such by a sudden expansion and doubling of the whole at that brane marker so to speak… the differentiation energy structure has spikes in low dimensional spheres at seventh, eleventh

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and fifteenth dimensions... 81 the nine fold matrix produces in the .81 form reciprocal 1.2345679 which gives an algebraic sevenfold which is ubiquitous to the many algebras and mediated at the 8 fold way to speak by the octonion introduction of adiabatic recourse within its own symmetry. This “wrap around type of energy such as we see in Euler’s number is the provenance then of the “exotic sphere per a relation of its two sides of surface thus performative likewise to a feedback... the strings of zeros introducing anomaly into classical Relativity might be read as potential energy feedback to vacuum which itself generates the energy of quasi particles and the two together might be the out most valence of vacuum knots

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shared with dark energy reading of gravitational signature in the structure described. The fourth dimension is considered problematically open but that influence on the seventh dimension which is read by conifold structure seems thereby to create the spike from the seventh dimension to 28 structures while the spike in the eleventh dimension to 992 seems to read .56 via the .112 value of the vacuum permittivity as five fold then.56 which is approximately the reciprocal of pi then squared. The 15-dimensional spike to 16256 objects finds that number to the fourth exponential 3.36 and this approx. 3.3618 describes relative three the fatio in reciprocal 2.764 where .764 in reciprocal is 1.309 and this doubled 2.618 which is in

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reciprocal the complement of .618 the golden section. (and in an odd complementarity the ratio .2764 is in reciprocal 3.618 as a mirroring in effect of the golden section as the sum of the square roots of ten and 11... the first ten times the reciprocal of pi and the second unity plus the reciprocal of pi... as a side note...) Turning the to the graph of singularities which rotated gives a kind of hyperbolic cone one recognizes an aspect in the cobordism the tunability Fourier transforms and the time cone aspect of this hyperbolic reading with the introduction of singularities per Penrose as that axial condensing or shrinking of spheres into which simultaneously one may read the development of the

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Reychhure eqation toward gravitational effect in the point like aspect of time space as towards say those quark point of energy being evenly distributed in general whereas the rubber sheet effect occurs locally... and over the aspects then of fields the Pontreyagin duality organizes to different mathematical fields the effectual mirroring of the stiffening valences of physical field in their mutual real of possibilities as the function showing in the physical but as wavicle also generated by extra dimensions in their quantum processing.

In the drawing I am interested in strings of fields related to each other and at end I give the formal definitions and areas of such formal fields but the drawing

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specifically is a translation over these to simplified interests in golden section harmonic neighborhoods... the higher dimension structure of relating two sides of a surface to basis vectors are translated in the following ways e.g. relating the gnomon as finding gamma contrasting with complementary space to forms of a unity difference... also a vectoring similar to splintering a octonion mode over corners, as well as finding a normalizing surface in a variety of approaches. As well, I am interested in the "perturbative" approach as translating consecutive nesting in a log mode to then a centering which pulls out the relations.

The ongoing drawing research is in general over these definitions and topics...

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note: a field is a commutative ring where a ring is the group of polynomials of which all elements are invertible

Partitions are a collection of disjoint sets whose union is x

Disjoint sets have no members in common but refer to each other and can advance to dual image.

Exceptional points are the merging of eigenvector and eigenvalue.

A saddle back point : highest point of y hatch and lowest point of the upward sloping x hatch sail. (In a sense a curved nonogon frame)

commutative means invertible as in all the elements of a ring being invertible and abelian.

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Topology is the plasticity or inelasticity thus variance over preserving a torus as functor of bordism (as it degenerates and morphs)

A homotopy is the structure preserved to the variance of a diffeomorphism which then handles n to k values where homology may introduce different categories to which a k function refers and the effects of a wraparound function of tidality showing for example in “exotic spheres”... Homotopy is an embedding relating kernel to image continuously relative instanton.

A Homology is a chain complex over categories which in dual become a cohomology.

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A ring is a group of polynomials in a closed list.

A chain is a group of category functions, functors, which relate explicitly and pairwise.

Simplex are the degenerate units or building elements at chief identity and recombination norms.

A stable homotopy is the effect of the wraparound in a mirror state but folded with that element of potential energy thus the brane mood to compact mode

The L function modelled on zeta rotates the scheme of the compact complex plane where then the idea of affine projection is reimagined in the form of conifolds. The handling of the surface then becomes a "translation"...

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Octonion form can disperse vectors divided over corners along the trace diagonal to create an injunctive mode of presenting the idea of k cells modelling higher dimensions as though via the basis vectors of Pascal's pyramid or triangle.

Categories

Steenrod Algebra

Adams Spectral Analysis

Monster Moonshine and Sporadic

Goldstone Boson

Instanton

Moyal bracket

Konstavitch Strange function

e

Langland Program Functors

Geode and hyper Catalyn

Catastrophes

Superior Composite Numbers

Exotic spheres

Pydic

Harmonic-Golden Section...

Abstract Polytopes

Sasaki Einstein

Minkowski space time cone

Cone per orbital angular momentum

Dirac Cones

CW decomposition

Category Theory

Singularities

e

String vaccua and knots

Dirac Spinor

Adler- Belle -Jackle anomaly

Bispinors

Hausdorf space

Raychaudhurd equations

Gellmann Matrices

Rogue wave

Triangle matrices

Sinusoidal equations

Penrose singularity

Penrose Turrell

Ising Model

Cobordism

Kalabari Yao and Dbrane

e

Euler’s disc

Exceptional point

Saddle back points

Einstein Kahler Manifolds

Pontreygin Duality

Partition parton…

Fieldman Equation

Furrier/Dirac/Lorrentz/Pauli…

Hodge Triangle

Pascal’s riangle, pyramid

Friedman Lemaitre Robertson Walker

Basis Vectors

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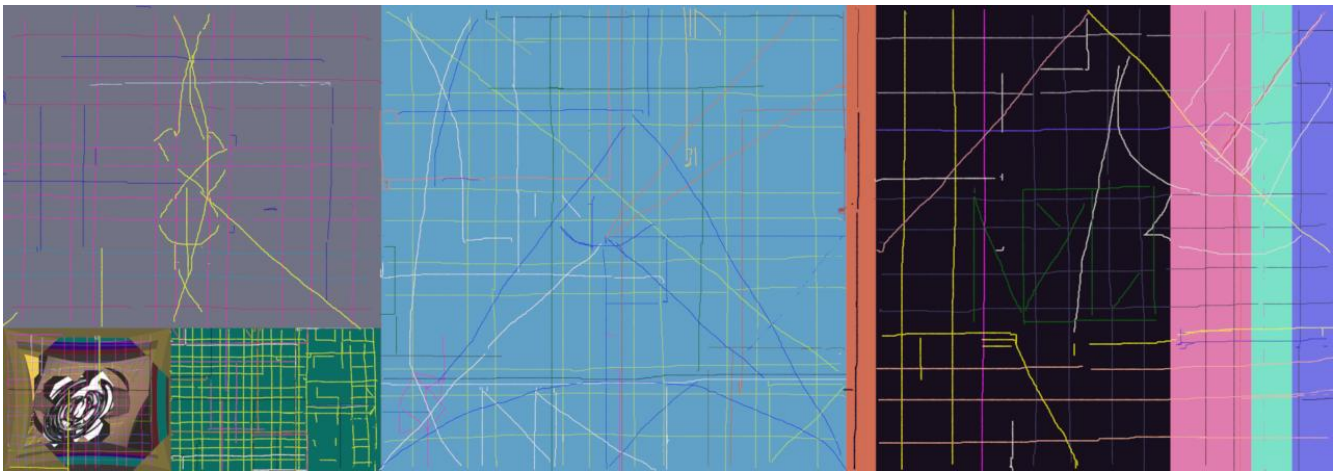

316m9

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Drawing On Brane World Volume Presaged by the Tracheira Painter towards K-cell Physics as Mathematical Art.

That Greek vase painter gives an image strangely like the 'world tube" which in 4 dimensional physics is bult over the time arcs linear deformation to then a sheet to relating then the "tube" as we see echoed in for example the term "gluon tubes"... the brane is a limit which has pairwise relation between higher dimensions while having the aspect of a "faithful representation" or string length become the cross section of the world tube.

Recent advances in"Universal Teichmuller theory per ABC theory as they consider structuring the formal consideration of primes uses the provocative idea of the "Archimedes Number"... being a dimensionless number (e.g expresses to unity as proportion) in which variety viscosity per se relates gravity to

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viscous forces seems to me analogous to the possibility as I see it that the potential energy build up which confounds classical Relativity at the quantum may well be simple energy donated to the vacuum just as the virtual particles borrow from the vacuum and therefore linking to string theory variety of vacua and the knot of compact embedding of higher dimensions thereby…

The indications of Gamma in representation over analytic continuation which shares a threshold of the dimensionless number idea form has likewise Greek origin in the ‘Gnomon or relation of complement to rectilinear figure in field as always mirroring a gamma or difference of unity in the faithful representation or border shared by the area extra a square cross section in figure and the square cross section of complement which is always a unity factor of on e.g. gamma thus

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“gamma” is presumably actually a phonetic version of “gnomon”...

Given that : we can compare this then to the probability of an integer to be prime as being the ratio of one to that number...

And considering from the vantage of the first uniquely even prime number two that successively to estate of being prime dyads cancel as do integer multiples of three which then would continue the first probability clause of one to the given towards the fugue then: 1 over given integer then divided by two divided by three as probability factor to consider ... one may take a faithful representation and turn to the successive log reciprocal suffixes and add them in relation to integers bonded to evaluate the dimensional access of a string with integer as string and decimal indicative of tension, or viscosity or

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field stiffness as then open to receiving and distributing relative vacua…

Mobius Wise Word Equation **1**

Spectral: Automorphic = Noema of Gnomon/Gamma

2: Hypotenuse as object carries a mathematical world line of improvised schema while the edge interpretation are formal resonance or as Duchamp put it 1- the Given two the Waterfall…

Hypothesis: If the Glass House of Duchamp becomes the Globe Glass House of Escher two sides with potential to either mirror or reflect/deflect will engage higher dimension which elicit of the potential energy 1) the borrowing from quantum flux and 2) donating to it and thus meeting those two surfaces mobius wise.

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Preliminary Conclusion: The rogue wave attitude involved and its Archimedes fluid flux catastrophe turbulence principles are engaging flux tubes in the world line -sheet-- brane scape to then a surface abstraction which is an open tree.

Implication: This surface then exhibits my drawing as a kind of Casimir Plate which is surrounded by the orthodoxies newly founded in current mathematics and physics between the Langlands Functor and the recent Hyper Catalan Geode and also the logical gates of Inter-Universal Teichmuller Theory for example thus lending those rotation like energies between mathematical vector and Euler organic modes to my Plate which itself is simply the harmonic Goldens section worlds I discover as a cosmogenesis of the number line in the making which analyzes all constants physical and mathematical as discriminating to

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the Exceptional Points and tangent fields created to near singularities in a valence system of stiffening and decomposition in the dawning.

https://x.com/i/grok?conversation=1930131694981382599

Between The Large Glass and The Melancholia

Up Along the Way of Cosmic Censorship and Faithfull Representation Spectra

Dimensions weight or Grain approaches or functors to their spectral combinatorics to interest and modular to unity presentations over fuzzy numbers in a string theory mode arriving at a mean then or h function to the diagonal as mapping composite structure. Accordingly, one may link Hass diagrams and abstract polytopes to Geode Hyper Catalan combinatoric geometrically relative polynomial

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expansion, Fluid dynamics , Abc theory of primes to UIT variations of modes, black hole modelling on Bayesian Neural networks and blackhole Calabi Yao analytic alike from also fundamental resource of Langlands Functor analysis. The artistic backgrounding of this is the Sanskrit like Cubist analytic, (poetic expansion of drawing verbs) in particular Morandi, The verbal expansion also of poetic to n dimensional thinking of Duchamp and the relation of Escher to Exotic Spheres in conjunction with the roto reliefs and influence on Penrose. Deeper in time: the integrative mode of Davinci and the structuralism of Greek Vases meeting architecture...and the Melancholia Durer Print remains a Constant...

Note here faithful representation essentially means a string dimension...

As we have set up the discussion over the mean values of linked highly correlated sets as

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mini universes my intuition and hypothesis is that the general consternation over collapse of Classic Relativity at quantum and the similar but discrete consternation over proposed manifolds of topologies in essential composite mean in the Inter-Universal Teichmann theory are together “Exceptional Points” or the merging mathematics describes of eigenvector and eigenvalue as in the spectrum of the melancholia rainbow divided over the spectrum of human creativity.

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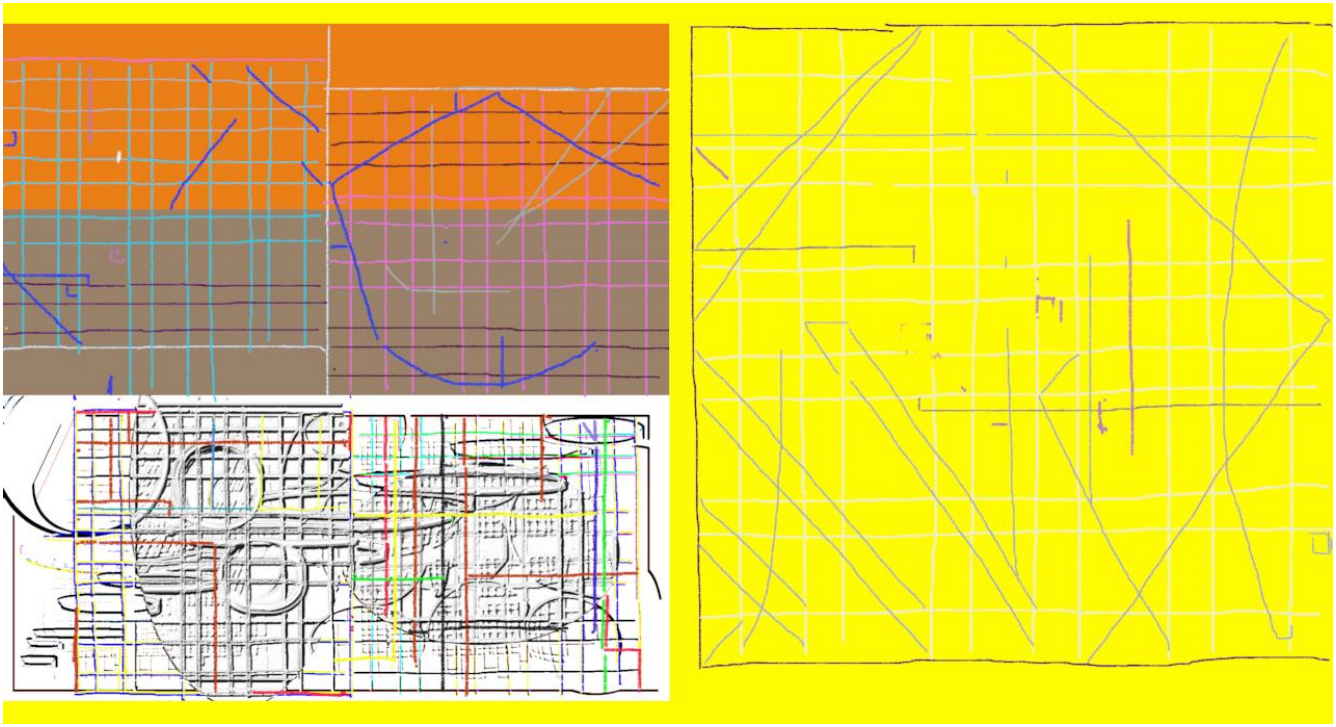

316o3

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Drawing on ;through and around ;Trap, Gap and Flaw in Compact Composite Stochatic Tidality... Via Quantum Flux and Dynamic Vacua Knots

Despite the complicated sounding title the drawing is simply oriented towards the Euler fingerprints all over the maths which need no Sherlock to find... he proceeded from an intuition over relating the Pythagorean theorem and the Greek gnomon to build on 1.1 a vector bridge through the number lines recursive nature and on this it develops as a combinatoric explosion in the number lines

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cosmogenesis if we choose... to this effect then that choice seems for me to relate “exceptional points” (described as merging of eigenvalue and eigenvector but the terminology disguises in a way the underlying relation of the Greek gnomon which is essentially same word = “gamma” thus the growth relating any figure to ground will include the complement one off the degree of the remainder of the figure and this aspect settles to Pauli formal brackets on the one hand and then altering the meaning of the mean to relate helicity , gain and loss, non

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zero topology, in both dependent and independent functions towards that defect in string vacua and thin material matrices for example or then again primal fields leading to their stiffening in physics valences mirroring mathematical underpinnings.. dedicated to non zero chirality or breaking... determining for myself that mathematical and physical fields comport to goldens section analysis I have use those neighborhoods circle and cycles as underlying mathematical groups towards relating the growth of composite

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analysis of the real functions towards mean vectors which then out of my own use have determined a triad of vectors which I relate to Eulers analysis over 1.1... relating exceptional point then to the structure of vectors... in which the Jordan Block matrix intercedes gamma in growth forms as element in the Pauli orientations... The Pauli matrices giving structural view on simple transpose, growth in phase and four pi rotations relating to (i) taken to fourth power...

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In a follow up drawing and article I will go more into the composition (and composite quality) of the vectors used in this drawing which were linear algebra quantum matrix model but the general idea here is the realization that such sub -globalizations are the same as world line, sheet and tube... and the focal realization is that these forms model the transition from Pauli matrix to Pauli, Hammard and Tufoli quantum gates via the logic of exceptional points which might be though of as contained interference. In Physics then this would parallel the relation of a "wavicle" theory in which the information which

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entertains the dynamics of chiral symmetry breaking is not in fact so subject to those branching's but maintains a trunk in the given dominion of the observable as phenomenon or as a stiffening of physical fields contained to something like Morgans Laws in the selection. That is not to say that then the tunnelling's of these via fuzzy number links to string topologies in the compact space built over various or hybrid vacuua (ie an intercession similar to exotic spheres where potential energy and quasiparticles are tidal forms) may not also perform transforms over topologies...

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Winding the World Sheet Moire of the Architects Number

& Quantum Little Thea The Shadow Shifter Spectral Butterfly

Up along the way one notices drawing as one goes along upon the transform over the realm of possibilities described in the phase evolutions from Pauli matrices and Gelman 8 folds to quantum Pauli and exotic spheres and conifolds thusly upon Adams Spectroscopy as essentially n to k dimensions blades that the structure from poetry and art to rhetoric and mathematics to physics are already a spectral winding towards which another dimension of involvement

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seems to find in the independent function described in the vector as needing ones attention in the form… I see the form in the stillness of lucid dreaming as isotonic and isotropic tidal dimensions where those odd chessboards Carol placed in Alice to illustrate kitty corner the Gnomon state towards trunk and branching values… In the Jordan matrix gnomon gamma becomes progressively a wraparound, trunk sustained in the parameters while the Clifford Diagonal of renormalization structure somewhat paradoxically welcomes the extender grid branching… the control value of the composite mean of the

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independent variables floating the numerical phenomenal observer upon h the hypotenuse area are as hyper usage then of gnomon-gamma in that it is the planting of an eigenvector upon a squaring value in the unitary which meets then the sudden bifurcation of the modular precisely at the angles extension and this is what Dirac sensed was shadowing him as he went along...then the difference between Bose Einstein and Fermi Dirac prestidigitated by the 8 fold way begins to claim over the Pilot Wave a different version perhaps better thought rogue wave.... One sees this in the seeming physics where by kinetic energy closing

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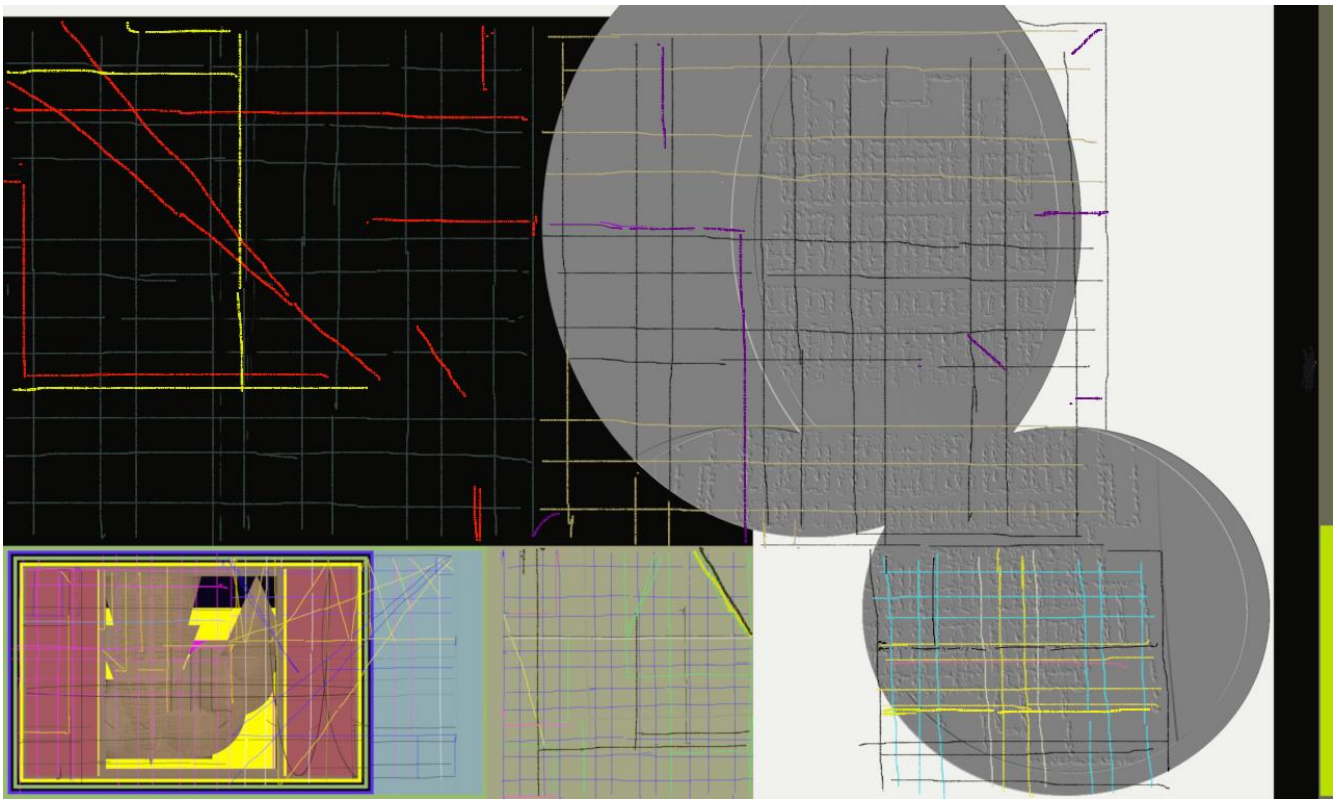
into quantum anomaly is the other side of the coin of energy quasi particle borrowed as the faces merge difference in place an exotic sphere of view.



316q9

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Explosion and Expansion from Ingres Violin to Einsteins sameto Van Halen Explosion as an underground expansion : A combinatoric repertoire... Linking Big Bang Explosion to Expansion in a phase space analytic continuity...

Western Music is in base two and compares to inverse squaring of physics fame... the fugue reference in Duchamps Glass correspondingly is obliquely channeling of Relativistic nomenclature namely: "Elsewhere" or the simultaneous hyperplane... in which previous history becomes invisible...(like a Bose Einstein Concentrate ...)..."fugue state" (which had a certain popularity in movies)..

Therefore base two as an expansion mode relates to the formal Cosmic Expansion

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phase while base ten is , say in the Adams Spectral analysis structured to a catastrophe at number six where symmetry previous five to five suddenly drastically mirrors as exploding index of symmetry, yet, the square root of two linking also to basis vectors gives the embedding of the expansion and seemingly then a link between n dimensional and k dimensional world brane structure , line and tube... Van Halen, classically trained brought to his tapping technique essentially a location of expansion states and related to the compressed distance of his hands over this as creating a kind of sonic boom so to speak... all of which seem to link to the Teichman inter universal theory as

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resourcing topological mapping sourcing transformations of the very topologies as independent vectors restructuring the vector space as well

Spectrum of Interests

Adam's Spectral Analysis, Langlands Project, Abc theory, IUT -Intra-universal Teichmann theory, Grovers Algorithm, Ising Matrix, Goldstone Boson, Simultaneous Hyperplane- Elsewhere, Archimedes number, Infinity Modular and Unitary, Complex Function Composite Mapping, Cantor's diagonal, Jordan Matrix, Pauli Matrix, 8 fold way, Octonion, Shadow Hamiltonian (article),Gellman Matrices, Hammard

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Gates, Clifford Gates, Quantum Gates, Qdit gates-, Hyper Catalan, Geode, Berry curvature, Ricci Curvature, Chern numbers, Vector Algebra, Linear Algebra, Star Algebra, Fock Space, Bethe Ansatz, Aleph, Functor, Strange Functor,Beyesian Neural Networks, k-blades, bundles, Exceptional points, jump points, saddleback points, catastrophe theory, Reiman Zeta analytic continuity, Category Theory , Kanstachi Strange function, CW Complex, Stable Homotopies, Exotic Spheres, Handle decomposition,Lorrentz Attractor, Monster Moonshine, Superior Composite numbers, Real Analysis,

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sporadic groups and Monsters, Rogue Wave, Moyal Brackets, Dirac spinors, Weyl Spinors, FLRW Metric, Friedman equations, Conifolds, Einstein Field Equations, Shroedinger equations, Kretschman Scalar, Type Two String Theory, Quintic Conifold,Kervair Invariant, Louillian Exceptional Points, Earnshaw Saddleback, Wienstrauss Monster, Latice theory, Dirac Cone, Reimann space time-cone, Terrel Penrose Effect, subdigons, Langlands Functor, Weyl fermions, Dirac Fermions, bosonic numbers, Category Theory, Adler Bell Jackyl anomaly, Partially ordered sets, Sasakin Einstein, Steenrod algebra, coprime ideals,

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cochain complex, Frobenoids, LIE groups, Hodge triangle, triangular Matrix, Pacal's triangle and pyramid, Hodge Aricelou theory, Calabai Yao, Hopf algebra, Hermitian groups, Hausdorf space, cobordism, Zavier Stokes, Laplace tidal equations, Langlands Gallois groups, Raychaudhury equation , ideal Primes, Pidic numbers, complex numbers and analysis, weight of function, adiabatic and diabatic numbers, abstract polytopes, frequency per spectral analysis, fuzzy numbers, Hasse diagrams, radix category analysis and theory, Schwartchild infinity, gnomon, gamma, Basel fx Euler, Eulers

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number...roots of unity , Einstein Sasaki and Einstein Kahler..., D Brane Theory...

In General:

Simultaneous coordination and transformation of higher dimensional interface over quantum flux and basis vectors per harmonic analysis... historically relating to Langlands Automorphic and Spectral analysis while relating further to infinity and vacua analysis between modular and unitary approaches and branching into Teichhman Trans- Universal theory related to String.

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From these branes of perception then the following question occurs to hypothesis occurs as how to sort out this information a path in which the relation of inverse squaring per the Einstein violin and Van Halen solo explosion become underground expansion clauses we have mentioned guides the perception of higher dimensions and their stretch vectors such as one might imagine of Minkowski time cones as brane like structure with limits then sending shock waves in the tidal aspects which themselves fuzzy number sort to alternative dimensions in a bubble universe like scheme of quantum foam as both donating and receiving energy

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(via potential in the latter clause).. that is to say, migrating in a sense from the cone to its normalized orthogonal interpretation of dimension as sheer ratio (In general the overall solution of physics in relating own concepts to unity) the modular to unitary comparison one might make of infinities holds in this case to a turn towards the time crystal from the assumed Hamiltonian orientations which through adiabatic highways of higher dimensions bring us to comparing then the relation of base ten to base two and in a sense the event of any division as suggesting a morphing to an integers diagonal construct towards these events?

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Summation Series

One on One Onto One and the Ontic Stiffening of Higher Dimensions Valence Possibilities to Probabilities 1) Co-defining 11 Quantum Modes 2) From Density of Matter Early Big Bang Golden Section Definitions Through the Particles 3) Musical Migration of Base Two Through Inverse Square Law from Einsteins Violin to Van Halen's Explosion 4) Cantor's Diagonal and Diagonal Matrices Towards Unity and Mod Considered Infinities relative String Vaccua Knots and Brane Tunneling Configurations 5) Curvature over Infinity Surface from Exotic Spheres to Adiabatic Highways on Higher Dimensions 6) IntraUniversal Theory Revisited in Time Crystal Mode7) The Vector Spin of

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Embedded and Embodied Transcendentals in Hyper Real and Surreal Modes and Complex Noether Space Landscapes

Points of Study: at this point I have to create a series of studies as drawings of my own mathematical landscapes in their interactive phase space variety as they become analogical to Teichman Trans Universal Theaters.

Where upon: Find The Fugue Ray and Focal Lengths of Phase Expansion across World Lines of Higher Dimensions in a Mobius Step Pyramid Embedded Exotic Sphere.

: Beginning simply with transcendentals related to Gnomon structure...

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With some preliminary consideration towards personally developed fields of recognition in the harmonic clause as mentioned the next step is to create a drawing over the following bridges as linked in perhaps unusual ways of the fathoming combinatoric

The recent implementation of the Geode as solving quintic and higher dimensional equation through a system of embedding geometrical objects in their polytope expansion as in that geometry showing the mapping clause over the simple Catalan triangle indicates the effect of the mapping to two dimension where different sizes are shown to signified growth in degree of freedom per the geometry of the

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polytope which one might contrast to the compression factor of string theory where the drawing out of higher dimensions elongates in the stretch, thinning as it were… the size differences then are distortions between two and three dimensions… Similarly , in physics the comport of the “wavicle finds interference patterns in the growth of orthogonal waves in curved space which borrow from higher dimensions… the fifth dimension is marked in Adams Spectral theory per Langlands as the bifurcation of symmetries at values five symmetry to sudden explosion at six, and this in the Witten’s and Calabi Yao work on D Branes find these dimensional tubes per world line and sheet to connect across dimensions linked

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to bosonic and fermionic spin thus the boson states the mathematical zero and the fermion links to wraparound structure such as transcendental numbers...

I would then hypothesize that the Geode which is an asymptotic progression towards its solution leaves a slight slack comparable to string vaccua particularly were one to visualize in terms of exotic spheres the jump point of that solution as analogic to Exceptional point (returns on the indexing e.g. eigenvector and eigenvalue... as comparing the inner globe surface as Geode and consider the surface populated by some interference reflective of mathematical irrational superscripts creating transcendental numbers obverse to the Geode mathematical object count of

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the expansions embedded to those cumulative surfaces where those maps have factorial representation their embedding clause. This paves a way then to a comparison to virtual particles which lend energy from the vacuum and what I then also hypothesize must be a return pseudo tidality of generated energies per potential which as meeting perform an interference value of their own at the vacuum as a corollary brane thus like the two horizons of a black hole loosely speaking... These expansions seem to form a wavicle like time space cone in higher dimensional terms. Since the overall theme has taken the space of possibilities in expanding dimensions to their probability factor it next seems to make sense to

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recognize the Inter- Teichman mode of splicing fields mathematically as implicitly compared to physical field valances, and across this spectrum next consider the unification of 11 kinds of quantum theory

over the 11 modes of quantum interpretation use the Bayesian as referencing over all those modes per then their “warrant” -warrant as a new entry in rhetoric so to speak… traceable to Duchamps “warrant” in relation to the Glass and/or found objects… probability not strictly numerical but taking into account the system of preference at a time and this reflects in a way on say Teichmann Inter-universal theory in which the splicing of functions maps their result in a n acceptance of topological variation

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potential…in reading the effect of higher dimensions over the algebraic and geometric arguments…rogue waves all on the Langlands analytic…

in effect a kind of tidality which links the “Transactional “ mode of a “offered wave” and a “confirmation” wave… and finally the “Ensemble of Spaces seems the whole circuit given the Bayesian overview which has piloted The degrees of warrant given and Therefore the linking of warrants in a Baeysian overview of the accessible 11 models including itself might propagate the tree: a “Many Worlds view splices to A Copehagen view of Potential bases if one considers the tidal effect of branes in higher dimensions as linking to say string level vaccu compact knots as bubble

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universes somewhat in the Teichman Inter Universe topological translations… In turn, a “Pilot Wave seems to link “Quantum Logic to Harmonics substituting for Normalization…The Theory of Specific States seems to link to the Copenhagen via a sense of basis vectors informing complex vectors… While “Relational Dynamics gives the observer over to being a kind of mathematical object which splices to “Participatory Anthropic Principle in which then a sense of history bring time to more object like condition of the mathentos… “Consistent Histories’ bonds as well to schemae as a history of the histories thus lending specific histories to their own evolution …

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Glass Drawing Metaphor and Aura Muse Since Geode and IUT at Vitruvian Man Main Door

Taking a view of Inter Universal Teichmuller Theory as splicing dimensions with then constructive deformation feedback the metaphor of glass museums such as we meet at Met and Louvre suggests of museum and collection an analogic connect if we take in for example The Geodes combinatorial grouping of dimensions and the Adams Spectral view over a catastrophe or exploding of dimensions as sample embedded museums as it were...Thus each museum has a collection which expands as it then is moved into an also larger museum thus the form of the packaging of dimensions in

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the metaphor. We might for example build then a glass pyramid then encased in a glass step pyramid encased in a globe and repeat or variegate at will... The drawing then proceeds in this direction while marking to the plan a particular referent to recently indexed Vitruvian Man Leonardo drawing which has been found to conform to a geometry of the human jaw rotation which a dentist discovered and which has more general physical applications.

A

1) Euler's Perma Pyramid in frosted glass

2)Pascals step Glass Pyramid in glass block,

3) Wittgentsteins Apriori Glass Globe as exotic Sphere in apricot colored glass

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4) Dirac Butterfly Cone (glass) with brick panels..

B

Dual pyramid per cone relate over arching double pyramid with touching points thus the glass must be hung from cross bars of sections as sections or glass teeth in honor of the dentist towards an architectural dentil...the sheets can be fused at edges when hung thus as the likelihood of the glass skull hoaxes which probably fused halves molded in the skull...

Collections: add copy of Duchamps glass with rotating Paper envelope covering differing proportions.

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Considerations of Drawing Ergo Culture : The Guitar was Paganini's Violin: Degas Drawing of Uncle Pagan playing violin was field extension of Ingres famous portrait of Paganini, Einsteins violin was relativistically Ingres, and Van Halen's tapping technique In "Explosion" was an underground expansion just as expansion has displaced explosion in Big Bang theory...

In my drawing then I model Teichmuller Inter Universal mathematical theory :a kind of toy worlds gypsy violinist in basis vectors meet a fuzzy number fuzz tone or dissonance factor by which ghost Hamiltonians distort space by splicing dimensions and finding constructive feedback... I am linking neighborhoods of

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harmonic resonance per golden section (and Pi as embedded) via considering in both mathematical and phyisics field as relating their co definition by which physics fields have a valancing factor of stiffening while the idea in mathematics as higher dimensions per the space of possibilities then as giving the probabilities given and taken the quantum flux and foam. Those neighborhoods then stand in relation to field extensions to transcendental numbers pi and Eulers and Liouville numbers along with irrational suffixes constructing others, an octonion field, Monster Moonshine Numbers, Qubism Bayesian neural networds, and a range of Pauli Matrices and Gell-Mann informing Qudits, and underlying study of

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the canonical structuring of the Geode linking Geometry to Algebras resonant to Langlands and Adams spectral modes… by virtue of a metaphor of placing "collections" in Glass museums in which the collections grow and Museums build over… while considering the relation of infinities to unity and modular form and Cantors diagonal to triangular matrices… A "Special Collection" is to take the recent discovery of the mathematics behind Davinci's Vitruvian Man as of a set of numbers relating an equilateral triangle which is given between .6336, 6584 and .64 with .6636 selected as a mean, over prior supposition was constructed over golden mean… however from my own familiarity with golden section derivatives

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those numbers are such and relate to a correlation by which .6336 is unity plus the square root of three, .65 is unity plus three times the golden section model and .64 is unity plus approx. .56 which squared is Pi. And those numbers added as 1.927 would doubled be reciprocal of golden section and the reciprocal of 1.927 itself as .518 then added .618 and .718 are 1.854 or three times the golden section, while 1.1 which figures in Euler's construction added .518 is 1.618 and this plus 1.1 brings us to Eulers number again..

Priming the Reflexes Through Neural Networks: The mathematics of Davinci's Vitruvan Man was through his observing the relation of an equilateral triangle such as one forms between ones thumbs and

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forfingers as viewing the extensions of limbs… for example if from that hand formation the left hand simple moves to cover the other a different reflexiveness in the body occurs than if the right covers and thus the Mona Lisa hand position then maps DaVinci's relation to his left handedness as an apriori proposition toward Bayesian Neural Networks by a certain stretch of the imagination… In the case of the present drawing the equilateral triangle is related to Triangular matrices which of themselves are essentially linked to Hammard gates in that they give negative to positive readings of the progress of basis vectors one may relate to nboxes as one goes along… the triangular structure I place over these per equilateral

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centering notations give another layer to potential transpose, mirroring etc… I bring to this some memory of training in Occupational Therapy in which primitive reflexes as cortically integrated create a language of movement, and since Neural networks think likewise in using brain structure itself towards mathematics of a Bayesian formulation I am interested in similarly extending the idea of "priming"… Likewise it becomes interesting to relate Cantors Diagonal Argument in which essentially the column one learns to not count twice on a turn is reviewed to its indexing of zero, that the zeros of mapping are excluded from the cardinality and thus the sense one may derive that the diagonal is an extension into the fuzzy numbers of

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the real domain which by Kcells or the rotation aspect of vector diagonals conceived of the basis may reach by analytic continuity to proportional byways into tunneling higher dimensions…

Notes on “mirroring” in a Laconic mode one might notice that per Leonardo the “mirror of art” has an inbuilt pun via the positioning of the hands in the Mona Lisa.. in a true ie silver mirror the ‘Mirroring reading we normally take of a person opposite ourselves whose corresponding hand will be on our opposite side is in the “true Mirror” actually inverted sense our person to person reading @ face to face. Relative the art object the viewer has a choice as to whether to read it as a silver mirror or as a face to face meeting in

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external space... that is the viewer has a choice as to whether themselves be right or left-handed... In Ingres portrait drawings the tangential theme is his substituting his own hand for his subjects in the image...(which has many layers of humor....)... and so return to the slow motion reflex of the drawing arcus.

Monster Moonshine Review

26x26 Faithfull Representation Tiles and the Breadth and Breath of the Quantum Butterfly to K-cell- n- dimensional Chess as Editor towards the 196,883 Given Dimensions.

Considering the Monstrous Mathematical Group which grows out of Cantors Paradise of group theory to infinities and reflects on physics partons or partitions I was struck

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by the coincidence of 26 sporadic groups and also 26 string dimensions and it turns out this coincidence pullulates a general intrigue and interest formally known as Monstrous Moonshine, perhaps because of the reflective agency potentially on physics. In a three dimensional chess the knights move would cover the Nome to gnomon aspect of the J function matrices hence the Bishops vantage is the "trace" of triangular matrices ... up along the way the advances of pawns trace n boxes Pauli mode and castle moves are moods of an It splicing of dimensions per Intra Universal Theory as also the queen is algebraic estended to Hammard gate form to complex space over the Kings strict unitary view if via basis vectiors Extending

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then to four dimensions and then to the Sporadic Group Monster Umbrella of 196,883 dimensions I discover the Editor over my formulations prompted by the Mighty Paradox of fields in physics and in maths respectively co-defining themselves in a cobordism so to speak in the n dimensional chess and it's branches stems and trees. Additionally, there is a dimensioning to consider also, of "pulses"...

Lou€ Lou(i)

The Musical reference turns to the Louiville Constant and also general structure of irrational suffixes as transcendental the Liouville base 2 harmonic then to become "Lou €) Lou (i)

Note that a guiding light has been Hambidges Dynamic Symmetry, an

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underground classic for Modern Architecture, originally a magazine he edited : The Diagonal of which then we might say the diagonal to our interest has come to involve Cantors Diagonal as well as Triangular Matrices...

The Chess Board through the Cyclotron tacks to dimensions which are in the Editor conceived:

Over the interest of building a bridge over the sporadic numbers and String theory via their apparent group number proximity which has sparked long term interest in their potential linking marks my approach then as will be formed in these drawings upon modelling modes of their

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presentation via phenomenal shadows and weak algebras intriguing demonstrating that the harmonic numbers of golden section morphology can serve as toy models of string theory vibration and that the have pi embedded within them (not to be mysterious: the reciprocal of the square root of ten plus the reciprocal of square root of 11 are .618 while the reciprocal of Pi is the tenfold structure of the square root of ten and the square root of 11 is the reciprocal of Pi plus unity... while the square root of the golden sections is .788 and that number in reciprocal is 4 pi while its half ratio as two pi is also unity plus the square root of three... The harmonic process continues(as each I will demonstrate) through all the Physics

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particles and Bosons as also formed on a golden section morphology (variances half ratio progressions and manifold reflections resonating vibrationally via stretching of diagonals to a tunnelling like climbing of these essentially dimensional basis vectors (think of Pascal's Triangle and Pyramid) in a fuzzy number mode consortium of expanding dimensions given an accumulation between Pi and the log to various number neighborhoods and cycles.

Next will be shown the Harmonic content of selected sporadic groups (necessarily a truncated presentation!... but made thoroughly enough for the model... upon examples from all the initial 26 groups..) We might then call these 26 drawings per 26 Bridge Bra-kets as placed in an

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architectural plan format for diagramming the ratios which will use a naïve normalization sometimes over large number. This is based on a golden section grid using the modules of .1056 as space between twice square root of five (golden sections parent i.e. unity plus twice the section) along with elements selected form the goldens section spiral of .618,.382,.236,.146 on one tact and on the other the section as degree upon the square root of five itself producing .2764,.1056,.0652,.0404 ,.0248 ... of these two columns of numbers then the surface of square composes to a Hermitian grid via .1056 flanked each side by .0652 this equalling .236 and wings each then of .146 working from center, while the ends

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repeat ..1056 flanked to create two .236 form on sides... of these then one can continue the spiral elements to form golden section morphologies ie .2764 which in reciprocal is 3.618 is found by the spiral formed in .0652 relating .0404 and .0248 as relating the .618 module to its complement in the successive spiral format...the numbers will have characteristic suffixes of .019,.028,.037 .046,.055,.064,.073 etc. reflecting the tenfold relation to square root of ten essentially in such numbers then as .528 (half of .1056) .2764 (the zeros have stretched) .6382 = unity plus number squared = pi and in reciprocal unity plus .7854 which times four is pi and complement is reciprocal of Feigenbaum..

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Another aspect considered is the relationship of transcendental numbers formed by exponents of irrationals or other transcendental numbers given the embedding we have found in Pi which we can compare to another phenomenon in Eulers's number e.g. 2.718281828459 which features a structuring of the recursive content of the number 1.1 in the form then that 1.1 plus .618 is 1.718 and 1.1 plus 1.618 is 2.718 while the gnomon(s structure we find for example in the "nome' of the j functions and which is by name shown also "gamma") of that will be observed to 2.718 in reciprocal is .3679 and its complement is .6321 which in reciprocal is = 1.582 of which .582 is 1.718 (essentially

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missing square technique of calculus)… the number E has several reversing facades ie one sees both 2.718 but also .8172 its reverse is in reciprocal 1.2236 and .2236 is half the reciprocal of the square root of five while the number sequence in E .1828 is its complement and time 8 is 1.46 or ten times the spiral of golden section at its fourth turn from .618… other sequences are .82 and .28 as I provide floating decimals for convenience of a naïve normalization then added 1.1 while also one observes generally that the square root of seven in reciprocal plus the square root of eight in reciprocal plus Eulers number in reciprocal equals 1.1… that number 1.1 is found to be a 'magic angle" in thin material conductivity by perhaps no

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coincidence…)…. So to summarize: the course of research and review through the 26 drawings is to link the relation of pi embedded in the harmonics relative the pi formed numbers of the sporadic group as linked to harmonic analysis and including the physics particles and bosons as golden section analyzed . This then meets the overall interest in the Mighty Paradox of the fields of physics and those of mathematics as co-defining :…Wherein physical fields pertain to a “Wavicle Model” in which the realm of possibilities demonstrates to the realm of probabilities via higher dimensional sorting through quantum flux and on the other hand mathematical fields link algebras within their geometrical comport to relation of

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numbers per se to mathematical objects. These might be said to relate to a Geode paradigm over the Catalan to Hyper Catalan in effect relating also surreal to hyper real numbers...

On that note, returning to the golden section grid used one notes a relation to the Planck as follows: the number .1056 which we have seen is the gap between twice the reciprocal of the square root of five in a square (structuring the grid essentially as used) relates to the Pauli matrix of 01 and 10 if we compare the reciprocal of 64 or 8by 8 matrix which is linearly .0156... we see 01 plus .56

10 plus .56

Where .56 squared is aprox the reciprocal of pi ... .0156 is the eighth turn of the

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golden section applied from .4472 and .0156 fits into all the modules of the grid to create a surface of approx. 64 representations.

The Planck:

6.62607015 to metric is a wraparound number so to speak, the 015 at end with return to .0156 using a floating decimal for naïve normalization ratio... while 6.62 is aprox .6.618 which in reciprocal is 0.151 or aprox ten times .0156 , this wraparound is a long version of the palindrome system of E... global to local one might say.... Therefore the intrinsic nature of an 8 by 8 model thus 64 in reciprocal is shared between the harmonic grid I use and the Plank. The Plank in reciprocal is .1597 and times 8 1.27 which is the .788 value which

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is square root of goldens section and is four times the reciprocal of Pi...

Drawing 1 Moonshine String Bridge

The drawing takes the charm particle at 1270 to it's metric per mass that number in reciprocal is .127 which times 3 is .382 or the reciprocal of .618 . It is also the complement of .8726 which in reciprocal is 1.146 or unity plus third spiral from .618 and .127 times nine is 1.146 as well meeting its exceptional point as it were... .127 in reciprocal is 7.854 or ten time .7854 which times four is pi and is complement of .2146 which is reciprocal of 4.66 the Feigenbaum constant...

The comparison is to the sporadic series in this case is to Janko series J3 (the

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sporadic numbers constructed on particular primes) which Is value 50.231 which in reciprocal is 1.9907 and the reciprocal of that is .5023 which squared is .708 one of two possible interpretations of the reciprocal of the square root of two the other being .707 which has the aspect of being a multiple of .101 which is the reciprocal of pi squared. Our .708 on the other hand has the distinction of being 3 times .236 the third ring of the golden section spiral from .618...

Returning to the .127 term for the Charm that number in reciprocal is 7.874 loosely 7.854 (each unit to kernel actual distorting it in expansion) and 7.854 is ten time s.7854 which times four is pi and is the number to unity reciprocal of .56 which .56

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squared is Pi... this having an interesting relation to the vacuum permittivity value of 8.854 to its metric which in reciprocal is .112 which multiplied 4 is the square root of 5 and is the complement of .888 which is the square root of the square root of the golden section. 8.854 time two is 17.708..the particular version of square root of two showing in decimal which we noted of j3 sporadic #. .127 plus .112 =.239 which squared is.488 which times six is 2.927 and times two is 5.854 or 1.854 as three times the .618 module plus four times unity... Another relation to ..127 is in the Higgs vacuum which unlike the vacuum permittivity constant (outside of the string theory more general and diversified idea) is lowest energy level of

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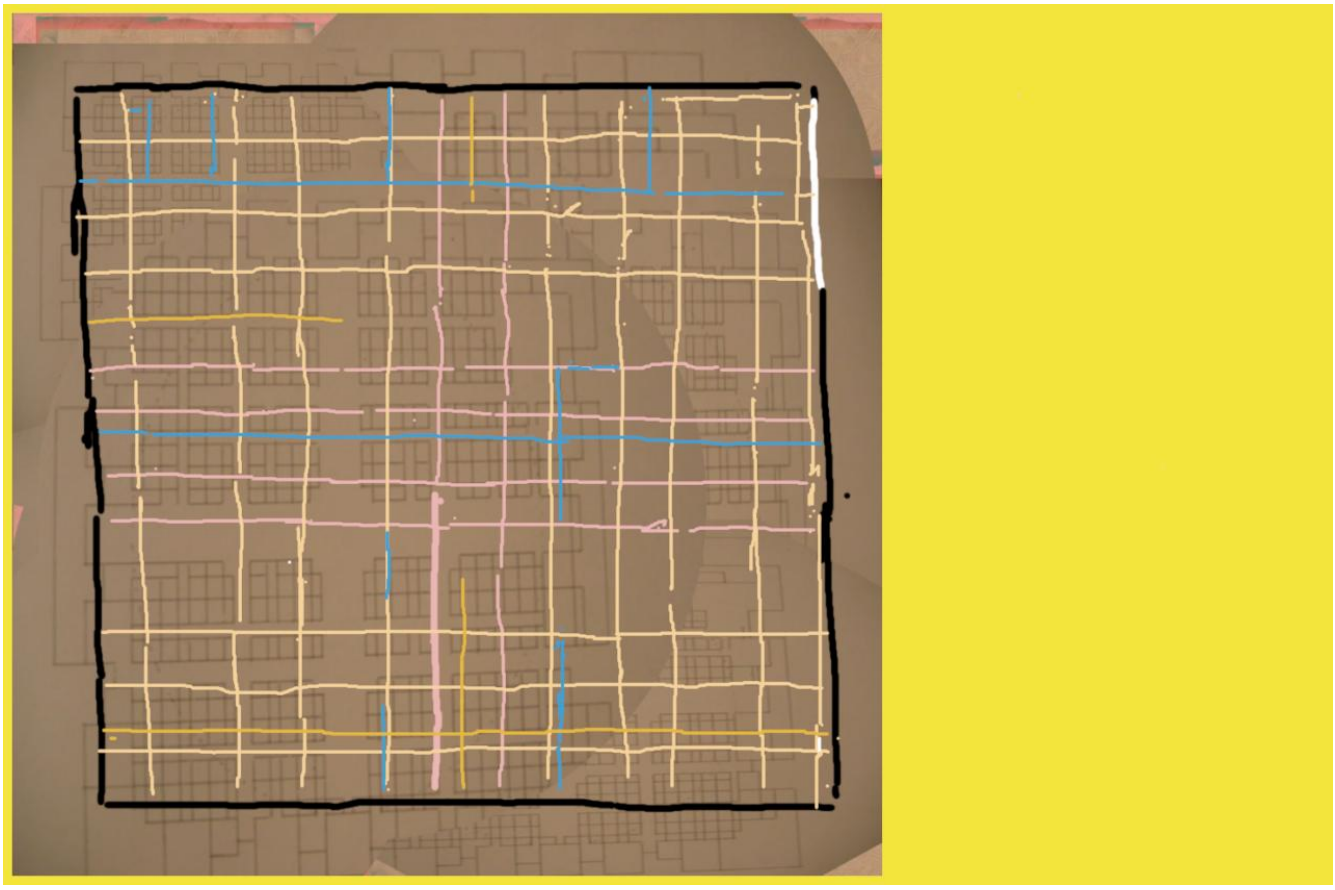
vacuum and 246 to its metric thus 2.173 in reciprocal... raised to fourth power is 1.101 where .101 is pi squared from its reciprocal form . Interestingly the Feigenbaum 4.66 to metric at tenth value .466 if cubed is .101...



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Bridge 2

The ambient space implicated in Heraclitus's observation in his dialectic with Pythagoras that any point on a circle Plastic Neo Eleaticism Infinities as between the Regimes of Mathematically Ambient Objects and Combinatorial Dust and Fluid Since the Lucid Dreaming of Heraclitus as Meeting the Golden Section, Monster Number, and Quantum Flux...

The qudit is a mathematical form which takes as is its center , similarly then and large or infinite group of numbers as a mass could embed each other into a quantum superposition by the familiar inverse multiplication moving through the complete range of possibilities towards their probabilities to come shall we say and

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in any order towards any subsidiary faithful representations marked globally. This then is totally different than a Random Walk because it maintains permutability to crossings which do not elongate a square fields mass, but rather field an already expanding circles radius of equilibrium if the idea of squaring is taken as the structure of a manifold which marks a module to unity and rather substitutes an expanding circular like infinity found open to considering modular and unitary infinities... upon a return: if also one were to propose a vector state of each placed in a combinatorial substitution a familiar trigonometric solution to having parallel lines meet in a sense by mapping them on to each other could similarly relate the

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modular and unitary states... I mention this specifically in relation to the production of the golden section regime which so far I have marked as embedding pi, being integral to the physics particles and bosons by my demonstration as well as to being embedded in the sporadic numbers thus pi embedded in harmonics and these embedded in the sporadic accomplish our intuited Moon Shine Bridge between the string and sporadic regimes. As Other investigations have found the Section implicated in String Vaccua and in Dark Matter Spectra.. the underlying question becomes what is the relation of this to quantum flux? It seems a paradox. To resolve: I look into a combinatorial facet namely the fact that the golden section is

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the reciprocal of the square root of eleven summed to also the reciprocal of the square root of eleven where the first is ten times the reciprocal of pi approx. and the second three times unity plus the reciprocal of pi...: thus we may compare: the golden section creates a modular form constrained to mirroring's in a unitary field while its square root is composed of four pi... we have a transcendental number embedded in an irrational number which relative the Sporadic is embedded in the primes, where primes form to a modular extension which the golden section constrains to unity... Contemplating a combinatoric scheme further a gnomon structure within the Golden section structured on its morphological variations

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stemming from half ratios can at some production shift to a manifold in square thus interposing at any chosen point that matrix which will constrain modules to square field and effectively if one were to continue marking corners to ratios in that context one would emphasize a Clifford diagonal upon which again one might structure square root diagonals and these extending outside the square field compose a kind of new version of a square wave, virtually a “Pilot” or as Heraclitus would put it “Genoskein”... At any point a modular extension outside of unity can be returned to unity while also unity at any point can extend basis vectors which will deform and this paradox seems to me an actual structure of the quantum.... Which

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we can imagine as useful to the degree we find it...

For example per black holes:

the difference between direct light path and curved producing image swapping like the chiasma of the eye for the curved event contrasting with non swap of the straight like the difference between the image of an adjacent physical body as opposed to mirror suggest that mapping of two infinities, one modular and one unitary state to the square wave of the modular as enclosing a circle and the circle enclosing a square the estate of the sine curve unitary as modelled in the black hole...

The drawing observes along the following lines: the left half gives architectural notation to representing the Strange Q as 93 to it's metric .0107 in reciprocal which on the one hand times 14 is .149 aprox.

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and this times three is .4472 reciprocal of square root where the square root of five is parent form of golden section as unity plus 1.618 or else per the .618 reciprocal form twice unity to that reciprocal while on the other hand .0107 to the negative two is .927 and this threefold 1.854 or three times the .618 golden section module... this particle relation to the golden section is followed by relating Janko group j2 value 604,806 which in reciprocal is 1.65 approx. where .65 is 1.5394 or unity plus the reciprocal of 3 times the golden section form.618...

The right hand panel in circular format has placed ratios center and transformed from orthogonal to a circular form as though through a black hole horizon with notes of

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the holographic projection and repeating some of the information from the left panel but adding Mathews Sporadic Group M1 as 001388 which to negative three is 193 or appr 1.927 times 100 where .927 times two Is 1.854 or three times the .618 module... and .193 times two is .388 approx. in recip 2.578 or twice unity plus the square root of three and .4 plus .388 as .788 then square root of the golden section.... While also considering Mathew Group M2 as value 660 in reciprocal .00151 approx .0156 divided 100 and .0156 times 100 as 1.56 or unity plus the number which square is pi and the square root of the golden section is 2 pi while formed on the values of reciprocal of square root of ten and reciprocal of square root of 11 where

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the former is ten fold the reciprocal of pi and later three times unity plus reciprocal of pi and .56 in reciprocal 1.7854 where .7854 times four is Pi and its complement .2146 is reciprocal of the Feigenbaum… thus a contrast between unitary and modular progressions is in harmony with building the harmonic bridge locating pi embedded in the golden section and golden section harmonics embedded in the sporadic numbers as a bridge forming the Moonshine conjecture of the link between string and sporadic dimensions which compared again to modular and unitary infinities related black hole simultaneous readings we might see analogous to mapping parallel lines to convergence via that combinatorial composite…and

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bringing to view the overall Mighty Paradox of interest wherein the Physics model finds the realm of possibilities fielded to probabilities approached through higher dimensional analysis while the Mathematical discovery of field divergence and recover between numerical and mathematical objects becomes the case of two linked co definitions we see in the paradigms of the wavicle in physics and Geode in mathematics for example...

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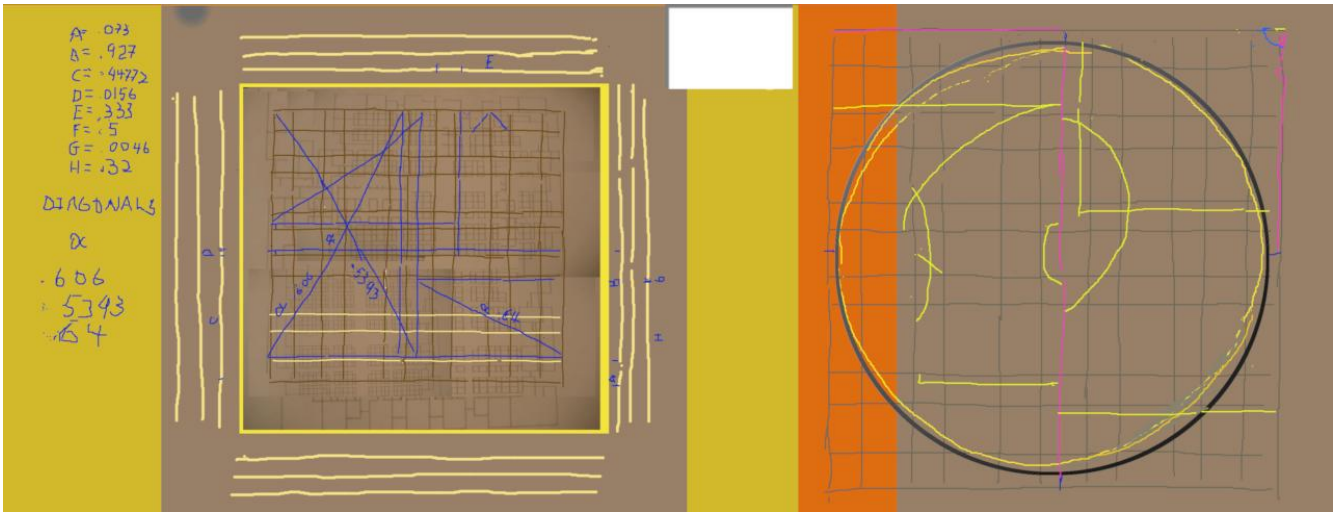

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The question in the ellipsis might be framed as asking whether two infinities one of which is modular to a sporadic presentation and another as unitary to a logarithmic log view of the golden section where the embedding of pi in the latter and harmonic analysis (as I have provided explicitly) may as vectors be be given a single or nataral direction over which mapping infinities one might detect

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exceptional points in the process as two expressions of naturalness, one in the single direction and another in linked groups... then the constraints would seem to be to not over perturb the structure for one thing while exploiting both a topological winding and an numerical winding linking the structure of the realm of possibilities to the realm of probabilities in the overall effort to relate forward a Moonshine link of process to quantum flux over those representations.

Taking Robert Smithson's enantiomorphic mirror and subsequent mirror displacements as potential proto symbolism of something we can construct

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as a meromorphic view composed over pi as symbolic in calculus to It's actual embedding in the rotational aspect covered between (i) to the first through (i) to the fourth where a golden section to unity progress is considered in relation to the tension available the very model of the golden section in simultaneously posing modular to unity progression this as a spectral tomography so to speak may accomplish a kind of underground Rosetta stone in the following way accordingly up along the way that: proceeding from an initial observation that the square root of ten in reciprocal plus the square root of eleven In reciprocal is the golden section and that moreover the reciprocal of the square root of ten is closely tenfold the

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reciprocal of pi as a unitary aspect and the square root of eleven is unity plus the reciprocal of pi we have our rogue wave pilot wave... which the formula of E to the (i) power to Pi seems itself to embed in the reference to the structure of the complex half plane in the j invariant form relating moonshine bridges between the sporadic and string regimes... we can suspect in the physics regime the weak theta regime of ..231 which times seven is the golden section may be a bridge upon a cosmogenesis of the number line which has a link in the distribution of the weak and strong forces between the strange and quantum number Kaons carrying the echoes of an initial cosmogenesis catastrophe with its structural embedding

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in the particle physics relation to strong and weak force from origins of their discrimination. Along this line of argument what might be the relation between the various strange functions in mathematics and the strange force proper that available research has linked in the histories of the Monster calculated to physics ramifications?

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Drawing 3/26 of Moonshine String Bridge Now:

Times Arrow Through the Higgs, Top Quark and Conway Sporadic 1

Linking the embedding of Pi within golden section harmonics distributed in the Particles and boson as meromorphic mirroring in effect to the embedding of harmonic golden section within the Sporadic branches of the Monster Pi oriented finite group “atoms”:... the Top Quark as 172,760 to it’s mass metric is in reciprocal 5.788 where .788 is the inverse root of the golden section as in reciprocal 1.27 then 4p in the sense of four times the reciprocal of Pi in a modular group and

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5.788 itself in reciprocal is then .172 and this times three is .518 a characteristic harmonic number which in reciprocal as 1.927 is .65 plus .6336 plus .64 where .65 is unity plus the golden section module .618 threefold, .6336 is the half ratio of .788 the inverse square root of the golden section and .65 is 1.56 where .56 squared is pi and .56 is close to .5528 the complement of the square root of 5 which is the parent of the golden section....

The Higgs at 246 to it's metric is 2.173 thus .173 is nearly identical to the previous entry of the Top Quark's .172 and .173 times ten is the square root of three... 2.173 in reciprocal is .46 and this times six is approx. 2.764 in reciprocal 3.618 or three times unity plus g.s. module and .3618 will

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equal 2.764 where .764 in reciprocal is 1.309 or unity plus half the golden sections module...

The Conway 1 sporadic at value 4,157,776 (permutations of a select set of primes) is 2.405 in reciprocal and this again divided into one is .416 which squared is .173 which we have seen in tenfold is square root of three.. the Conway .416 plus the Higgs.46 values sum .876 which is 1.1416 added two is Pi and ..1416 time 5 is .708 a value for the square root of two which is three times .236 or the third turn of golden section spiral inclusive of .618.

In terms of times arrow it is interesting to go back to the quark as 5.788 and consider this in of the module of .788 consecutively framed in the unity clauses to give a

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superposition of these multiplied against each other and these added are 1.204 in reciprocal .83 which to neg fifth power is .988 in reciprocal 5.927 and doubled 11.8 or ten time .118 then five times .236 the third turn of the spiral of the golden section from .618 inclusive. So what one sees in effect is a complex square wave and this suggests time itself is a complex wave in which sinusoidal and square waves suggest a kind of inbuilt interference towards higher dimensions which to some degree sort our orientation...

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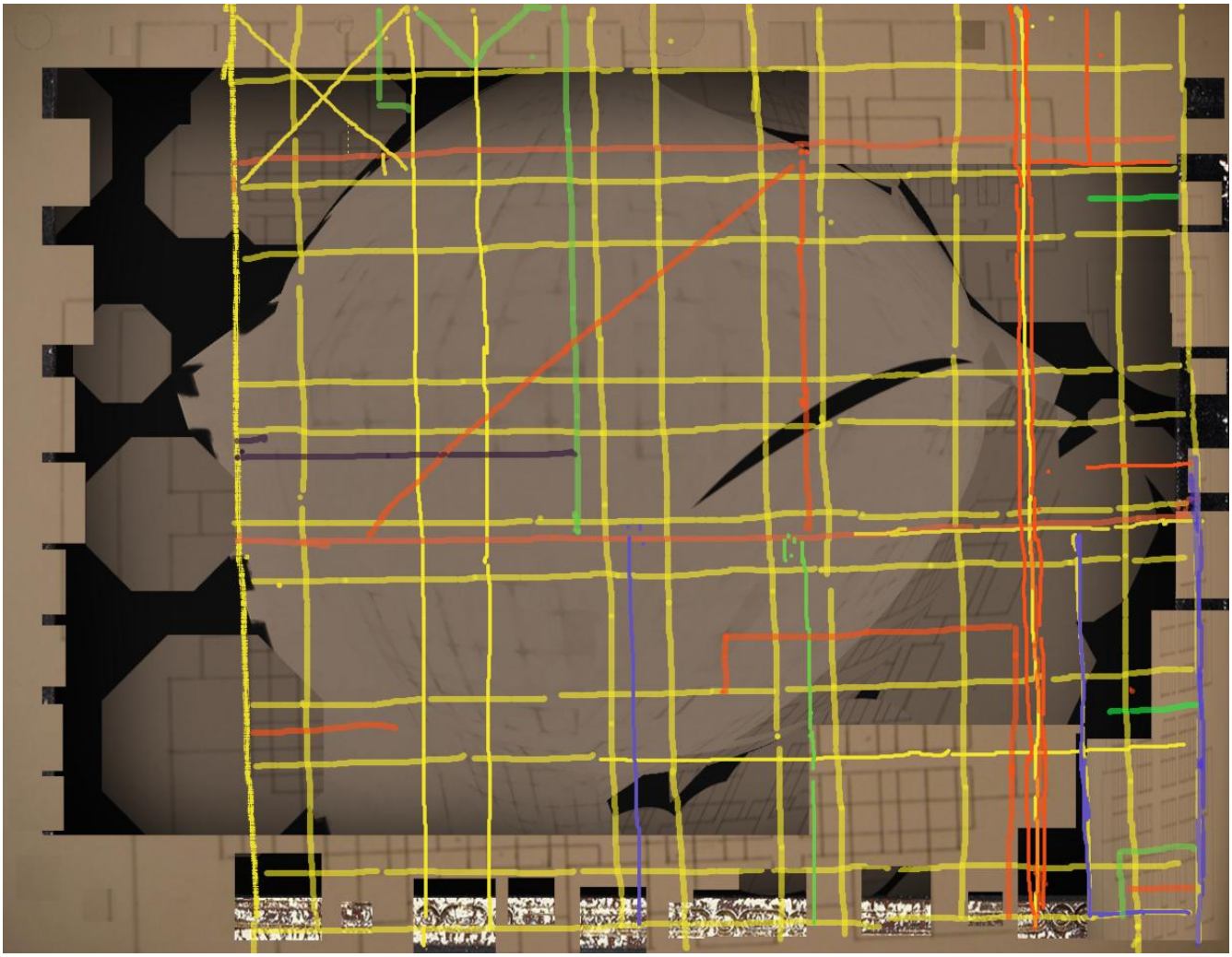

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Moonshine String Bridge Series 4/26

Saddleback Points between Exceptional and Diabolic Points as Quark Sea Gain and Loss to Holographic Black Hole Analogical Transpose via Black Box Confinement of Quantum Color through the Interference Cave...

The drawing continues the Phi Nomen phenomenon as it were (golden section) as embedding pi relative the “atomic “ primes of the Sporadic and the Monster Moonshine hypothesis linking string theory harmonics then to Sporadic groups as brought to attention by their mutual 26 categories which specifically relate to the (j)- function in particular which allow modular extensions in complex space

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relevant also to my drawing hypothesis that a saddleback point can be created linking what are called Exceptional points and Diabolical points as expression respectively of eigenvector melding or coalescing via gain and loss to eigen value and momentum to velocity (latterly) and which reviews to a consideration of matrix to linear construct in which rows implicate multiples and basis motion while columns motivate vectors to a contrasting division approach relating the reciprocal nature of the dynamic.

The particular relationship of Fischer 1, Weak Thea(Weinberg Angle) and the Bottom quark relate a tensor form which I hypothesize structures the first form of matter as Plasma, in which quarks and

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gluons were not bound as becoming subject to fields which then did bind by also limiting quark production or "quarkonia" and so relates to the idea of cosmic voids which in a sense map this and per the article

https://doi.org/10.1093/mnras/staf781

Testing the local void hypothesis using baryon acoustic oscillation measurements over the last 20 yr

And relating it to Relate this to Primordial Soup was Full of Flavors

https://physics.aps.org/featured-article-pdf/10.1103/PhysRevLett.134.142301

it then seems to me that baryonic osculation relate to string oscillations as effect of quenching and that in the color confinement these are incident in the same

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way as Black Hole radiation if we give this number line cosmogenesis the analogon of its toy world lines , sheet and tube it would be string theory configurations which would be the necessary computer ansatz.

Turning then to the numbers of consideration:

Fischer Group1 of Sporadic of 64561751634400 as in reciprocal 1.5489 and this approx. 1.5393 or unity plus three times the golden section module .618 and in reciprocal approx. .65...

The Bottom Quark at 9180 mass to it's metric is in reciprocal .0001089 and naively normalized as 3.1089 is in reciprocal .3216 and this doubled approx. .64 which is in reciprocal 1.56 and .64 times three is 1.927 in reciprocal .518 of which 1.927then can be

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seen equals .65 (as in the Fischer 1) and .64 plus .6336 the latter unity plus the square root of three and is also the half ratio of the reciprocal of .788 being the square root of the golden section. Interestingly then the use of a complete elliptical integral in which .64 is primed as .64 times the square root of unity minus .64 e.g. the complement the result of this "nome"is the reciprocal of the square root of six and this plus the reciprocal of the square root of seven will equal .788 or the square root of the golden section which itself is the sum of the reciprocal of the square root of ten as being ten times the reciprocal of pi then added to the square root of eleven as proposed which is three times unity plus the reciprocal of Pi thus in

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sum .618 which we may place in relation to the Weinberg angle .231 which times seven is 1.618 the golden section proper. So we see then the sums of the square roots of six and seven in relation to the square roots of ten and eleven.

In the drawing I use a parallel to the Dirac four tensor by using the numbers .518, .6336,.65,.64 ... I find it also constructive to consider the square root of .788 which is .888 a number whose complement is .112 or per the 8.927 to metric of the the vacuum electric charge. .888 itself is 1.126126... and .126 squared is .0156 or 64 thus ten times our familiar .64 and is extensively mirrored and modelled in the Planck... and recently figures per 126 as

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the dimension of interest in the Kervaire Invariant https://arxiv.org/pdf/2412.10879

(relating to exotic spheres in which the inverse mapping of adjacent surfaces in context of sphere builds a kind of mobius bridge of the k dimensional... and by implication the structuring of diabatic to adiabatic to black box considerations as we have broached in color confinement as a black body...

In terms of the drawing this relates to my improvising an analog to the saddleback point by presenting it as a bundle form split on orthogonal corners of composition

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and so passing and diverging at center various scales can compose to centers in a mirroring, but where the squares are replaced by circles then the splitting of the ray becomes involved in an exotic sphere mobius potential over next to next leading order presentations...

section... we noted that Through the use of a complete elliptical integral .64 times the square root of unity minus .64 squared will produce .3782 the square root of seven and .788 will equal the square root of seven plus the square root of six and .788 the square root of the golden section as itself the sum of the square root of ten as ten times the reciprocal of pi then added to square root of eleven as in reciprocal three times unity plus the reciprocal of pi

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sum to .618 the golden section module and we review that weak thea the Weinberg angle at .231 is times seven the 1.618 golden section term proper... we then have seen the square roots of six and seven related to those of ten and eleven and .518 the square root of .718 (figuring in Eulers 2.718281828450) added .788 or square root of golden section sum as 1.236 or half ratio of the square root of five the parent form of Golden Section.

Van's number is my creation of a kind of s numerical plasma of golden section derivatives between .0019 and .0091 in which the binding quality of Pi embedded in Harmonics and Harmonics in Primes is a clue toward "color quality" of vibrational damping we see proposed in Eulers

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number as relating via its structure of the reciprocal of the square root of seven plus the reciprocal of the square root of eight plus the reciprocal of E equals 1.1 which numbers palindrome addition of .81 plus .82 also equals as taken to decimal (noting that .81 as 1.234567 vies the cardinality quoted into most Algebras and seemingly related to the square root of two times four as square root of eight) horizons. .1828 is the complement in that number to the Palindrome .8172 relative 2.718 and .8172 in reciprocal and doubled is square root of six... 1.1 then is the magic number of thin material physics enabling the damping quality towards super conduction and relation to Dirac cones. Three approaches, multiplication by 1.1, complete

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elliptical integrals , and random association between the elements of Van's number propose the drawings number line cosmogenesis analogous to red , blue, green... In addition to the use of Van's number there is also Van's Triangles a pair of triangular matrices preparing the spread between a section of the number e.g. between .0073 and .7003 which gives an interesting variation on Exceptional point while relating to the complement of the reciprocal value of C speed of light. The general interest is category theory or the complete list of isomorphisms, e.g auto morphism, meromorphism, diffeomorphism, symplectomorphism, homeomorphism as prompts to possibilities in spectral transform

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probabilities range of next to next to leading zeros relative ontology of mapping to and onto ie direct and indirect elements of fuzzy number bridging... Finally the grid used as a harmonic Hermitian golden section bridge implicates the structure of 126 and .126 as mentioned in the squaring of .126 from term .888 as root of the root of the golden section is squared .0156 and thus 64 or 8 square matrix in the linear reciprocal... Van's Grid then will subdivide the golden section harmonic surface to.0156 intervals 64 times approx. as manifold. This comes from a structure where a central .1056 area as the interval between twice the square root of five in unity is paired to structure over relating the golden section spiral to both the

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number proper and also its parent the square root of five thus 1.618->.618->.382->.236->.146->.09 on one tract and from .4472 or reciprocal of square root of five on the other tract then .4472->.2764(with reciprocal 3.618 relating to 2.764 as .3618 giving a glimmer of relation of golden section to square root of eleven and ten in reciprocals summed)_>.1056->.0652-.0404->.0248 and half ratio .0124->.0156->.0073->.0064->.0046... out of this then the .1056 of the grid center has .0652 on each flank thus .236 followed by .146 and the pattern repeated by creating from edges .236 with .1056 centered creates the Hermitian Golden Section Palindrome Quincunx Grid where all value subdivide to packets of the .0156 value ..note .236 time three as .708

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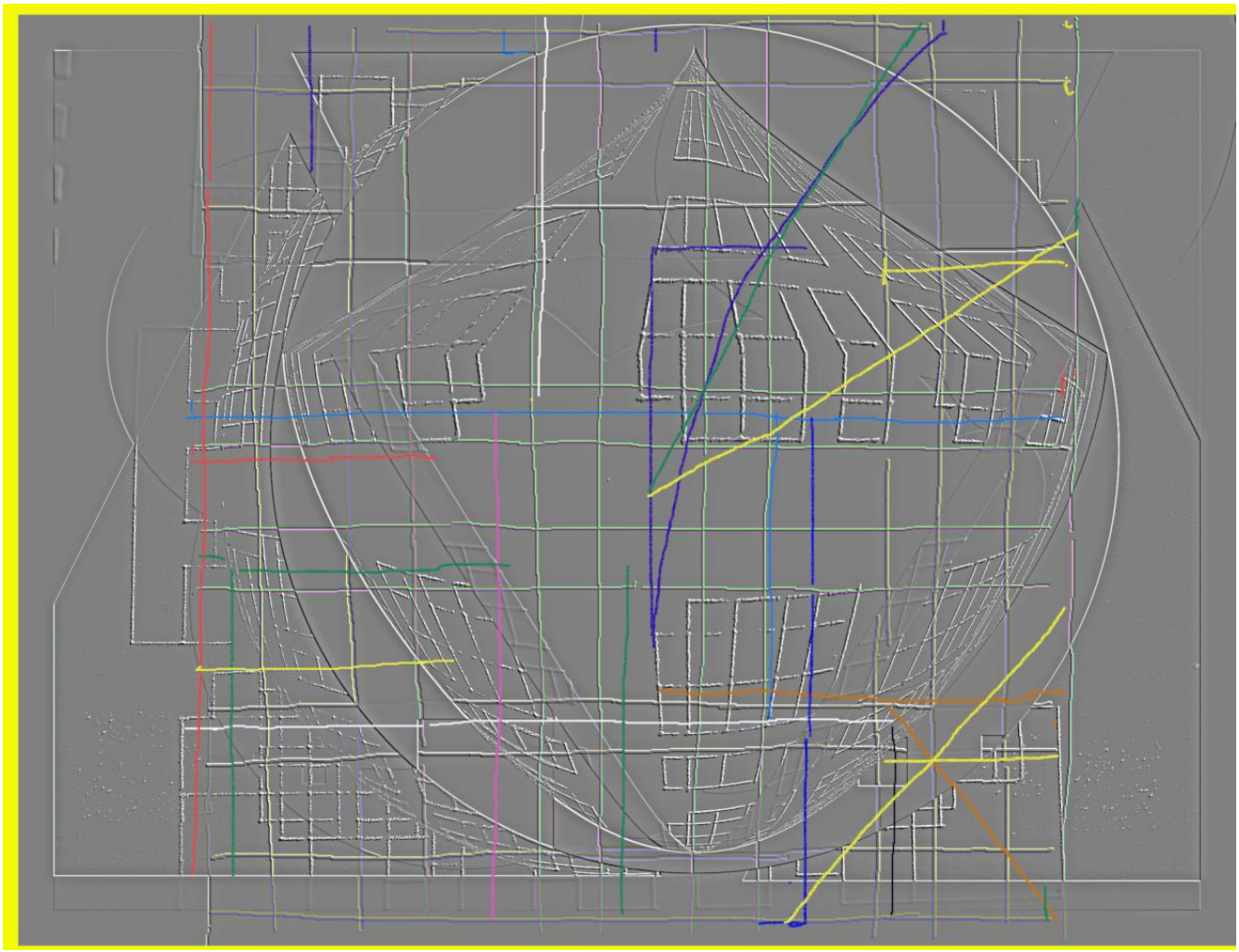
gives a value of the square root of two parallel .707 and thus a bra-ket.



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Monster Moonshine String Bridge 5/26

Anti quark mass values and Sporadic Higman Simms Group with Relation also to Higgs and W Boson masses with Banyon Tree and Open Forest Exegesis Towards Branching values and Black Box Strong Force Color Confinement.

The antiquark value to metric of 2.2 is in reciprocal .4545 and this number squared is .206 and tripled is .618 the golden section module... The Sporadic series at the Higman Simms Group is value 19352 e.g. permutations of 'atomic" primes...and .022 is the seventh term of a spiral of .618 forms from the parent square root of five

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at reciprocal form...half .022 is .011 and this is the reciprocal of.1056 the area between the square root of five twice applied in a square field. The two terms of 2.2 per anti quarks and .022 of the Sporadic dovetail nicely.. as .o22 times 100 is 2.2 and moreover 2.2 divide half as 1.1 is the now famous magic quantum number in thin material conductivity while 1.1 is also very much the structure of Euler's number where the reciprocals summed of the square roots of seven and eight added to the reciprocal of E are then 1.1 mirroring in 2.71828459 the palindrome of .82 and .28 if given decimal horizons thus 1.1....

As the quarks are color confined might their relation to antiquarks be like that of a Josephson junction ie computers on each

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other affect their space if we consider the Banyon tree or Black hole as closed systems in relation to an open forest or hologram inflected horizon? In effect I structured the drawing to give center real number space as branching over quadrant in a similar system of proxemic while relating to the structures which generate the square root of two in terms of .708 and those of .707 as initiating different eigenvalues with an eye towards finding saddleback structure linking Exceptional points and Diabolic points ie the difference between moment and velocity staged differently to singularities than that of eigenvectors and eigenvalues... A relation exists in the drawing to the Higgs and W bosons compared as their interaction is the

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meromorphic domain of observables while the monodramy or changes in independent variables I note in the division of the reciprocal values where the Higgs yields .0079 and the W .0124 the latter being the sixth turn of the golden section related to the parent square root of five divided half.. their ratio as .6433 creates a palette of harmonics in terms of square and square roots ie... .6433 to negative two is .802 times seven Is 5.6 or ten time .56 where that squared is pi and .618 golden section is square root of ten added that of eleven thus ten times the reciprocal of pi plus three times unity plus the reciprocal of pi and 11 divided ten is 1.1...the structure we see in E.....or quantum "magic" number...(its recursive structure is the

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element in common).....6433 to neg 3 is 2.6854 and .6584 =1.46 or ten times .146 the fourth turn of the golden section spiral....6433 to neg 4 I .9463 times 8 is 9.73 where then .73 times two is 1.46....6433 to neg five is .972 and times 8 is 7.7764 where .7764 = 1.288 and .288 times two is ..578 or square root of three in reciprocal....6433 to third power is .2662 and this to neg third is .718 which squared is .518 in reciprocal 1.927 which composes of .65 unity plus reciprocal of three times the golden section plus .6336 the half ratio of the square root of the golden section in reciprocal and .64 as 1.56 where .56 squared is pi and .56 is 1.7854 where .7854 times four is Pi...

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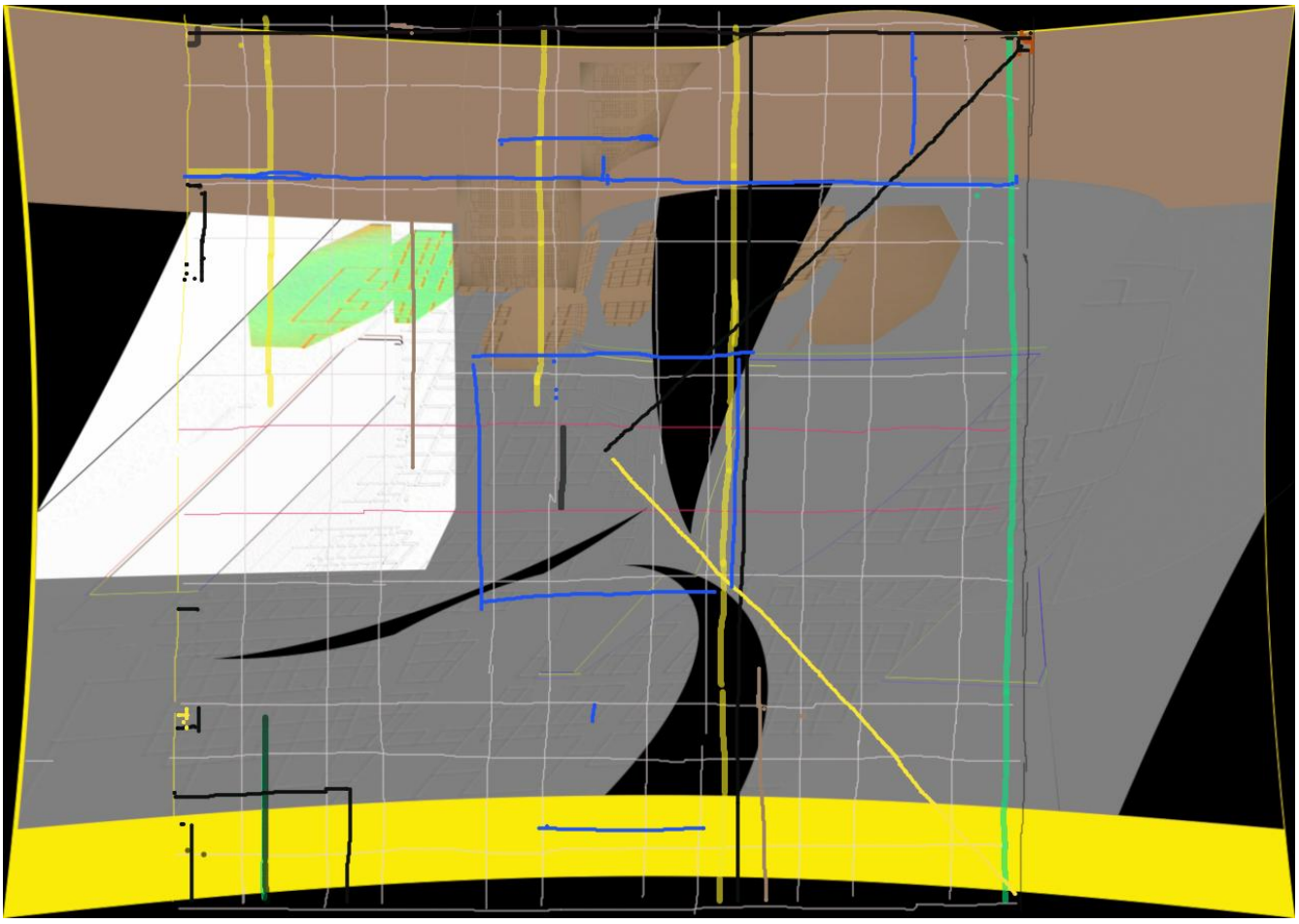
Summing the most harmonically useful I get the term 2.818 which in reciprocal is .3548 and this to negative fourth is .0156 or 64 the generative 8 matrix.



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Bridge 6

Hauptmodulein: Flux the Capacitator of Universal Patterns

Find:

The Diffeomorphic Bridge for" Monstrous Moonshine Conjecture " e.g. Primes Primed or Sporadic Series Relative String Theory in their Each 26 Categories Relation...

As Isotopes preserve embedding so do diffeomorphisms preserve smoothness as being homeomorphic to preserving structure we then appreciate hyper cubes and hyper spheres, spirals and log

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functions, n boxes and polytopes as open to “diffeomorphic bridges in which the function to its loops in group action form topologies ...my thesis then is that if golden section harmonics embedding pi can be demonstrated to all the particles and if the sporadic group can be shown as embedding harmonic goldens section terms then a diffeomorphic bridge is built for Monster Moonshine meaning the proposed connection between particles and string theory to the “atomic” prime groupings of the sporadic numbers collectively called the Monster.

Diffeomorphic then is not a quality of a given group but rather the bridge built between them through associations or ‘group action” where that action as loops,

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cycles is a cover and the related covers as functions and their special operators become of themselves then, interestingly, the space. (not to be confused with “space itself”)…

The Monster group relates to itself and various other groups through group actions and in this particular drawing I am relating The Mcloughlin group which is unique in the Sporadics as having connection to the Quartonian Group. This has to do with its having complex determinants and suggest to me the next general possibility of relating a Diracs Comb analytic between the particle harmonics and those of the Sporadics with created Exceptional points testing a

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general monadramy or flux cycle to phase development and possible meromorphic poles or studied spikes as singularities guiding the sheets and branch cuts in their phase assimilations.. In relation to this I also pose the particle moonshine bridge focus here to The Muon and show an interesting dovetail where they have in common a dimensional comport to .1056 which is the value of the gap between the reciprocal of the square root of 5 namely .4472 twice applied in a square field e.g. “unity”...

More generally, but In relation to this I am also interested in how determinate function routes as damped may alter the variations over a mathematical mean with possible screenings by the difference

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between sinusoidal and complete elliptical functions respectively...

In the abstract tidal forces for example are in a sense complementary while exhibiting loss and gain... complement as an idea of course favors a more exact structure stating to unity in some mathematical systems... to balance the view we can view for example the Hasse diagram for complementary lattices which uses the tension between a circle and square to state a potential plastic to elastic interference mode we can place then to the square interface as a horizon as affine plane to the globe or unit circle tension of

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hyper sphere to hyper cube... we see this specifically in the transmogrification the recently developed Geode for expanding beyond fifth level polynomials by byeliciting of the Catalan plastic equilateral triangle to the elastic irregulars then extended to polytopes as counting faces as dimension markers as distortions made between sphere and cube at surface thus also a reminder of sources in the "exotic spheres" of this logical system.

Relating logic to math then the Boolian math for example is embedded in the computer screen indexing bar, and relates the logic of direct references to tangential ones thus I often use this to pattern the style of my notes... Boole as a self taught mathematician seems like me to have been

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highly instructed by the Greek Gnomon brought to a dialectic with De Morgan valences... and so bolstered by this connection I will try to channel that: shadowing the gnomon is the idea of the reciprocal...: that is a book for example as a rectangle held upright in your hand seems thus short the full dimension of a square: while same book altered in position to its longer horizon given the original horizontal scan of viewer continued is now exceeding the value of a square and this is essentially the division into one that we term reciprocal...with consequences of relating multiplication and division to eigenvalues and eigenvectors on the one hand and on the

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other recognize then the Boolean algebra terms of $(\wedge,\vee)$

Respectively “meet” and “join” e.g. to meet references degree less the unitary limit and join poses to unitary the idea of the module which extends its partial degree. I propose that the fine scale of suffixes to harmonic terms relative golden section as .0019 to 0091 where they exist as modular extension at their initial suffix to reciprocal stand embedded in field as the slight representation little alters the mass yet the overall term easily divides into pairs which succinctly divide by the general suffix generated by value 64 as .0156 as curing the surface course. This leads then to a kind of pseudo quantum Hall effect within the genesis of the

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number line which closely considered seems a possible orientation to quantum strangeness if one considers this fined indexing as essentially a form of superposition which extends simultaneously to an infinity of possibilities and their inverse fuzzy number winding of dimensions... the .0019__>OO91 spectrum is seemingly mirrored in Euler's structure of 1.1 as similarly allowing a modular to unitary interface that number also the "magic" number of thin material super conductivity in the case of e 2.171828459 the palindrome .82 and .28 e.g. the sequences compared at a horizon to sum 1.1 and the reciprocal of 7 plus that of 8 plus the reciprocal of e equal also 1.1 as the

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recursive note on the base ten structure indicates modular to unitary ratio structure at closure towards decimal... essentially “meet” and “join” of the structure of lattice forms of which the Boolean relates the the Mclaughlin relates to the Leech Lattice as well as the quaternion order... the number 1.1 times the various roots gives very close harmonic terms towards the pseudo quantum Hall effect as well... which means an internal division to those pairs stays close to the square fields division to ratio rather than dividing that ratio as the ratio of the ratio. (which I take as a principle in plain view of quantum strangeness)...

Relating the Muon to McLaughlin Sporadic Group:

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**The two groups have partial differentials which coincide on a scale of .618 as a spiral built on to parent form .4472 e.g. the reciprocal forms of the golden section and it's parent squ. root of 5 respectively where , to consider the muon first, the muon places its vale105.653755 I simplify to 1056.65 which rounding to 1056 on the one hand is .1056 times ten where .1056 is the interval between two times .4472(For interests sake one may state one entry of.4472 as being .112 the reciprocal of the vacuum permittivity times 4 while the other .4472 could represent gravity as .149 to metric then 3times .449 also .4472...)....
One could also view 1056.65 as 1056 plus .65 where .65 in reciprocal is 1.5393 approx or unity plus three times the golden**

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section .618 module... it can also be viewed as 10.56 in another approximation where .56 squared is very loosely or heuristically close to the reciprocal of Pi and .56 in reciprocal as .7854 has on the one hand the reciprocal of the Feigenbaum as complement and .7854 times 4 (four pi as it were) equals Pi closely... this then seems between .56 and .7854 a phase evolution reflecting where .56 times 8 is close to .4472 because it is .112 times 5 reviewing the vacuum permittivity, certainly, but also the more general .3136 value of .56 we have broadly generalized as close to .3168 the reciprocal of Pi is actually doubled close to the golden section module recalling that the golden section .618 term is the sum of the reciprocal of the square

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root of ten plus the reciprocal of the square root of 11 and so the 4 fold rotation of .7854 as value from decimal of 1.7854 as reciprocal of Pi then times 4 equaling close to pi is indeed a '4 pi" phase change in the calculus (complicated by the fact that the square root of the golden section .788 in reciprocal 1.72 is four time .3168 in other words the linear sum in fact. The reciprocal of the value of the muon is .009 and this is from a spiral constructed by .618 times the square root of five consecutively the .4472,.2764,.1708,.1056,.0652,.0404,.0248,.0156,.009

The Mcloughlin Sporadic on the other hand has an entry at .1708 via partial derivatives thus the two points are separated by five branch cuts so to speak... the Mcloughlin

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value 898.128 is in reciprocal 1.112 and we know .112 as the vacuum permittivity from previous calculations over the Muon indices affording times four a square root of five value in reciprocal which added another leaves a value of 1000 times the muon simplified to .1056... and .112 as in reciprocal 8.854 shows .854 as in reciprocal then 1.708 or ten times .1708 the value second turn of the spiral constructed per .618 times .4472 and between .1708 of the Mcloughlin and .009 of the Muon are 5 spiral levels..1.112 in reciprocal is .8992 and this is .2997 or speed of light to metric times three... additionally, .2997 plus .009 is approximate half ratio of .618l...

The Mcl value of .898.128 show .128 as complement of .8172 which in reciprocal is

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1.2236 and doubled is 2.4472 or square root of six or in reciprocal .4086... the degree to which a number is within unity , embedded or outside unity added gives a view one might metaphorically pose as a gnomon by reading an oblong books dimensions as upright less a square and turned to horizontally then greater a square the diagonal the control on the equivalence of the ratio...the diagonal essentially subject to becoming the wave length of the planar Hamiltonian... as if painter stretcher bars were knocked in to square dimensions and a color string stretched diagonally across one frame and the opposite diagonal a pink string the other to show then a planar Hamiltonian of which the sinusoidal would be like the tire

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in To Kill a Mockingbird in which “Scooter: embeds herself… different gauges on the tire giving a different reading or Dirac comb on the horizon, this to exceptional points being like walking in mid-Manhattan and staying in same place as the effect even of changes in gate, or if consistent simply “diabolical points’…

Returning to numbers: the .1056 value I find interesting to relate to the Pauli .01/1.0 matrix configurations as .0156 =64 thus the linear number for Gell-Mann matrices generalizing Pauli… as then .01 and .10 each added .0056 or .56 divided 100 or again to neg fifth is ..7236 or in reciprocal 1.382 thus unity plus the complement of .618 which in reciprocal is 2.618 the structure of gnomon/gamma…

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.0156 plus .0156 is .1212 and this times five is .606 or unity plus .65 as in reciprocal 1.5393 where .5393 in reciprocal is 1.854 or three times the .618 module... note also .0056 times two is .011 the reciprocal of .1056, 0156 plus .1056 is .1212 and times five is .606 as we have seen and .606 is six times .101 where .101 is the reciprocal of pi squared times 6 thus times seven a value for square root of two as .707 which can also be .708 or three times the third turn of the spiral from .618 thus giving two roots for the complex plane...via odd/even of .707 and .708 contrast. The 1.854 value can be followed also through square roots of six as we trace from Eulers number via ..8172 as brought to decimal horizon, thus 1.2236 and doubled 2.4472 or square root

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of six and in reciprocal .4086 and the terms of the square root of seven and eight as added in reciprocal term to also the reciprocal of E itself thus 1.1 as a recursive guide. And the term of e 45 and 9 suggests the square root of two (since the term at end reflects back on first term of 2) which times four is the square root of 8 and these roots in reciprocal form added will be 1.854 or three times the golden section module...

:Functional diagonal... the diagonal of matrices given an exponential function is then the aspect of a diffeomorphic bridge via the space which is the building of the cover through loops circles etc and K or branch cut to degree E to degree Pi to degree I give a diagonal in exponential form which is the counterpart of the

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polynomial where x square thus mass implicates a tuple as times b and then a momentum factor in the addition plus c....

In the drawing the number I use for K is .606 plus .09 plus .958 the last being .0156 plus .1056 times ten as aprox 1.2112 where .2112 is half ratio of .4224 the complement of the square root of three and .2112 is complement of .788 the square root of the golden section... these numbers added then as 1.65 thus reciprocal of .606...arriving at an Exceptional Point...interestingly the complement of .606 is .394 and this doubled is .788 the square root of the golden section...

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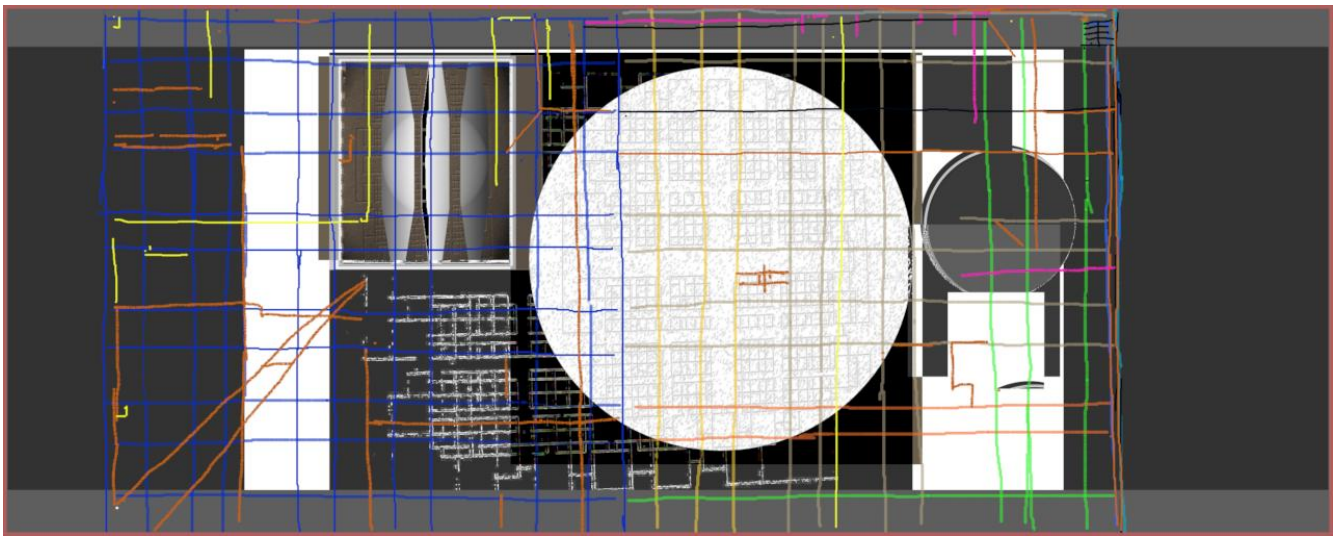

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Exceptional Point of Muon Neutrino and Held Sporadic Group Monster Moonshine String Bridge 7/26

A number frequently occurring in golden section harmonics is .518 and reciprocal 1.927... where .518 and square root .718 added golden section .618 are 1.854 or three times the golden section module. Then find .518 per 1.927 has a group structure of .65 plus .64 plus .6336 where .65 = 1.5393 or unity plus the reciprocal of three times the golden section module and .64 as 1.56 observes .56 times 4 as pi while

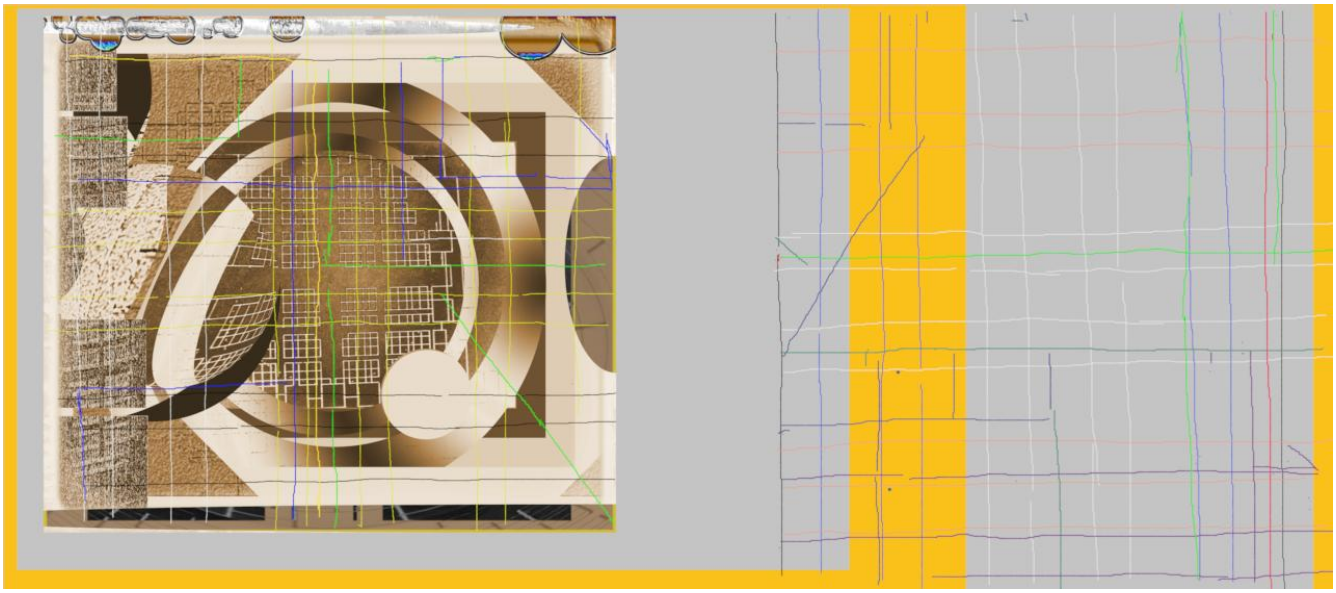
e

.6336 is 1.578 or unity plus the reciprocal of the square root of three... The values of the muon neutrino taken as eigenvector and that of Held sporadic group as eigenvalues create the .518 exceptional point of arrival in the following way:

The muon neutrino as .00000222 mass to it's metric is to the negative third 2.428 closely approx. and while 2.421 to negative four is approx. 1.118 or half ratio of square root of five at a consideration, and Held value of 4030383200 is in reciprocal 2.482 where .482 is the complement of .518 the values of .428 and .482 added as .91 have together the complement of .09 which is the fifth turn of the spiral from .618 and .91 squared as .828 and doubled is 1.6584 where .6584 in reciprocal is 1.518...

e

the value of the neutron neutrino noted 2.428 in reciprocal then observes .428 times nine is 3.854 and this divided two is 1.927 in reciprocal .518... thus a coalescing has occurred... the muon neutrino by a naïve normalization could be presented as 5.22 and this equals .191 in reciprocal and times two is .382 or complement of .618 where .382 in reciprocal .2.618... the characteristic gnomon structure of unity.



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Moonshine String Bridge 7/26 Additional Structures Ancilla

In this drawing I recompose to view the .518 value which has .718 square root and added to .618 are 1.854 or three times the golden section module while itself as in reciprocal 1.927 thus .6336 plus .64 plus .65 where .6336 is in reciprocal 1.578 or unity plus square root of three and .64 in reciprocal unity plus .56 a value square loosely pi and in reciprocal 1.7854 where .7854 times four is pi closely... and then .65 of that bracket is unity plus three times the .618 from the 1.27 reciprocal value.. thus

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this pair of three folds are prestidigitators of exceptional points on those terms of digression... The view I recompose then is to show this more as wave or Hilbert type space analogy. I have also viewed the complement of .40306 of the Held Sporadic group (in the previous drawing I was comparing this to the muon neutrino as I found their exceptional point through this mechanism... the complement then, as .5696 will find .718 as embedded and taken to third power will be .788 the square root of the golden sections. Taking .5969 doubled as 1.191 where .191 times two is .382 or complement of .618 the golden section module then adding .191 to .40306 the original base as a transpose the sum is four times divisible by .618 per

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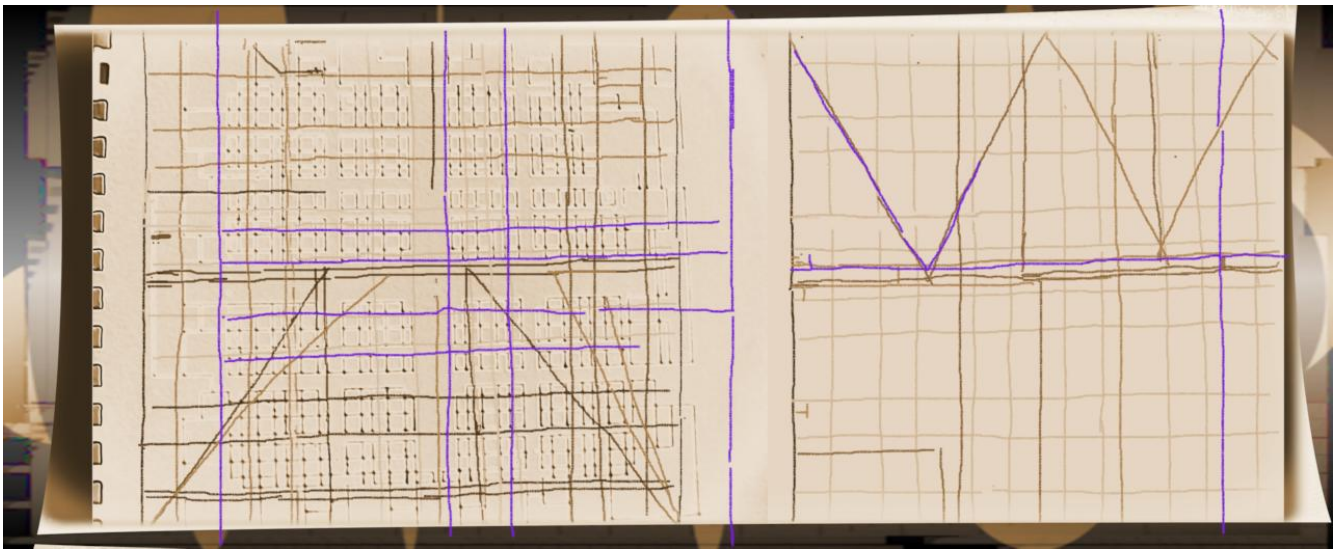
reciprocal of .406 is .6156 and this times 14 is 8.618 and .406 plus .40306 will be .809 this doubled then 1.618.... while the original .406 in reciprocal also divides by four as 1.618



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M. Moonshine String Bridge 8/28 : Tractitus Involute and Time Array

In the continuing series of bridging Pi atomic structure of the “sporadic group” with golden section pi embedded harmonic analysis of the particles I in this case compare the Rudvais Sporadic Group with the Higgs Boson… and up along the way I am interested in comparing the sporadic group as finite and the general case of quantum mechanics as also 4 dim. Finite in which tunnelling aspects via instantons may find branch cut sheets in the Reimannian surface model which find vaccua levels per string theory 10 to the

e

500 power yet finite... and compare this with quantum field theory as infinite dimensional via the bridge this time of exceptional points in a transposed function this time of the Dilaton towards the more exotic realm... in which case the momentum space introduces perpetual variations over the paired normalizations of a spontaneously broken symmetry couching these transforms infinitely as opposed to explicitly broken symmetry where the tunnelling transforms n dimensionally by to a limit of n as opposed to the non limit of k in the alter example. Turning to numerical bridges toward then towards their functional advance and chosen operators by which I will indicate in particular the transpose of the meaning of

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Exceptional points of gain and loss at a merging of ground to vector that may be considered.

The Higgs Boson can find from 125,258 to metric mass indication as in reciprocal 7.984 and this again divided into unity .125258 which to the negative two is .3539 and this times two is .7078 which straddles two versions of the square root of two as .707 and .708 thus a bra-ket e.g. left right movement relative complex space...

The Rudvalis group is of order 35,942,400 in reciprocal 2.782 and this divided unity is .3594 and times two .718 which is root of .518 and these added to .618 are 1.854 or three times the golden section module...since .518 as 1.927 in reciprocal adds .65 , .64, .6336 of which .65 is in

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reciprocal unity plus three times the golden section module, while .64 is unity plus 1.56 of which .56 square is very approximately pi and .56 as 1 .7854 finds .7854 times four closely pi and its complement the Feigenbaum in reciprocal... there fore I see the set .518,.618,.718 and the set .65, .64,.6336 as approximately braid correlated...

Since my process finds pi embedded in the golden section and the golden section in the sporadics and physics particles alike ;as bridge: it is then interesting to compare Pi as transcendental to the golden section as irrational... and considering moreover the inverse view of Eps as functioning in meromorphic context as isolated poles of bad behavior in one context of otherwise

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order and substituting then a field of flux disorder then raise to view the EP as a projected ordering... it then follows that an irrational exponent or irrational number might be viewed as gain loss scenarios toward an EP as well , and the irrational exponent in that case necessitating a square matrix for the projection...

My question then is how best can one distinguish whether a number is irrational?

Along those lines also arises the question considering the altering domains of EP presentation being thusly on the one hand quantum mechanical finite and quantum field infinite: what happens when you subtract from infinity?... (seems to resound to the state of quasi particles and the domains of spontaneous symmetry

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breaking and explicit symmetry breaking per the instanton and dilaton respectively to their tunnelling on one hand and scalar distortion on the other...

Interestingly, as well, it would seem that subtracting a number from an index of numbers built on the extended infinity conceptual basis would mean then one axis would extend faster than the other...numerically over the yet stable continuum...an idea which then carries over to considering Infinity freshly abstracted to a circle as a line may be compactified to a point at which point then the circle or sphere adjacently composed another finds the gap space the equivalent of the gap in a linear infinity with subtraction, which relative the

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different directions and one growing faster than another forcing the space itself to relatively shrink relative both… inversely the gap between spheres or circles will grow.. and this resonates with recent theories of universal bootstrapping dimensions displacing dark matter theory…

The immediate approach is to give .518 as and eigenvalue and .5393 as eigenvector as one EP construct… and .2764 and .3618 as another (.2764 =3.618 and .3618 = .2764) while .518 composes reciprocal to harmonic values respectively .65,.64,.6336 and .518 finds .718 square root and added .618 three time the golden section module as an EP landscape or Time Array… and then relate these with inbuilt embedding

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of Pi to golden section with Liouville Transcendental which thinks in terms of number-line factorials field relating to the .3618→ .2764 tenfold via a stretching out of that ground in transcendental terms…

That set of operators actually devolves into a supporting Algebra , Van's Algebra if you will: and for this there is a contrast between quadrant structure and a center line which lists ten manifolds, while also the traditional quaternion axes are in effect ijk and one and negative one, while in the quadrants are four matrices centered these composed of (1,1120,1.0101,1.2112,0.0101), 0.0156,0.1056,0.1010,0.0101)1.1011,1.12602,1.1111,1.12112, and 1,0156,1.1056,1.56,1.156 and the circulation through quadrants marked

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by values of (i) as alternating in powers 1 and negative one. The ten manifolds listed center have harmonic golden section origin sources for number one 1.1, (where the reciprocal of square root of ten and eleven add to golden section module and ten divided 11 is 1.1 for two, .6336,as this cycles half ration of .788 the square root of golden section through quadrants , .149 as this times four is .4472 ,.7854 which is complement of Feigenbaum and times 4 is pi, .708 which is a value of square root of two and times five is approx. three plus .5393 the latter being 3 times golden section module, .1056 which is interval in unity of twice square root of five reciprocal and times 6 is .6336 the half ratio of the square root of the golden section and

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equaling unity plus square root of three, .231 which is weak theta and times seven the golden section , .1828 featured in Euler's number is complement of .8172 which as 1.2236 is unity plus half the reciprocal of the square root of five and doubled is 2.4472 which in reciprocal is square root of six, and .1828 times 8 is 1.46 or ten times .146 the third turn of spiral from .618, .127 the complement of .8726 which in reciprocal Is 1.146 and times nine equals 1.146, and .4224 the complement of the reciprocal of the square root of three as 2.36 is ten times .236 of which those values each are highly harmonic. The supporting field is Van's number which is some 500 harmonic terms between.0019 and .9504

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To review, then the drawing is relating the pi embedded harmonic content within the physics particles to the harmonic content of the sporadic numbers as demonstrating a Monster Moonshine String Bridge Proper.

In this case the physical reference is to The Higgs Boson where the 125,250 value to mass metric in reciprocal 7.984 and this divided unity .1252505 if squared is .3539 and this doubled .7078 a number hovering between two possible values of the square root of two e.g .707 and .708 which then can be considered a bra-ket.

The Sporadic Group interviewed is the Rudvalis group, order 35,942,400 which in reciprocal 2.782 and divided again unity .3594 this doubled is .718 the square root

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of .518 which two terms then added .618 is 1.854 or three times golden section module and we have seen .518 as in reciprocal 1.927 thus the now familiar set of .65,.64,.6336 of our EP construct at outset. Adding the Higgs and Rudvalis then the result .7133 if cubed is .3618 a term which in reciprocal is .2764 and .2764 in reciprocal 3.618 thus a tenfold with an EP structure and 2.764 is twice unity plus .764 which in reciprocal is 1.309 or unity plus one half the golden section , while .2764 in reciprocal 3.618 is three times unity plus the golden section module....7133 has as complement .2867 and this to negative third power is .73 and doubled then 1.46 or ten times .146 the third turn of spiral from .618...

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And to summarize over the harmonic bridge there is also the interest in dual readings of Eps as situated points of instability on the one hand and in another flux context of say the irrationals then pose a projective stability via the construction itself, and an interest in viewing cuts through infinity as creating relative directions of different speed compressing the areas reference respectively and then the linear transformed to circular enclosed unities in which those gaps now have expansive properties...

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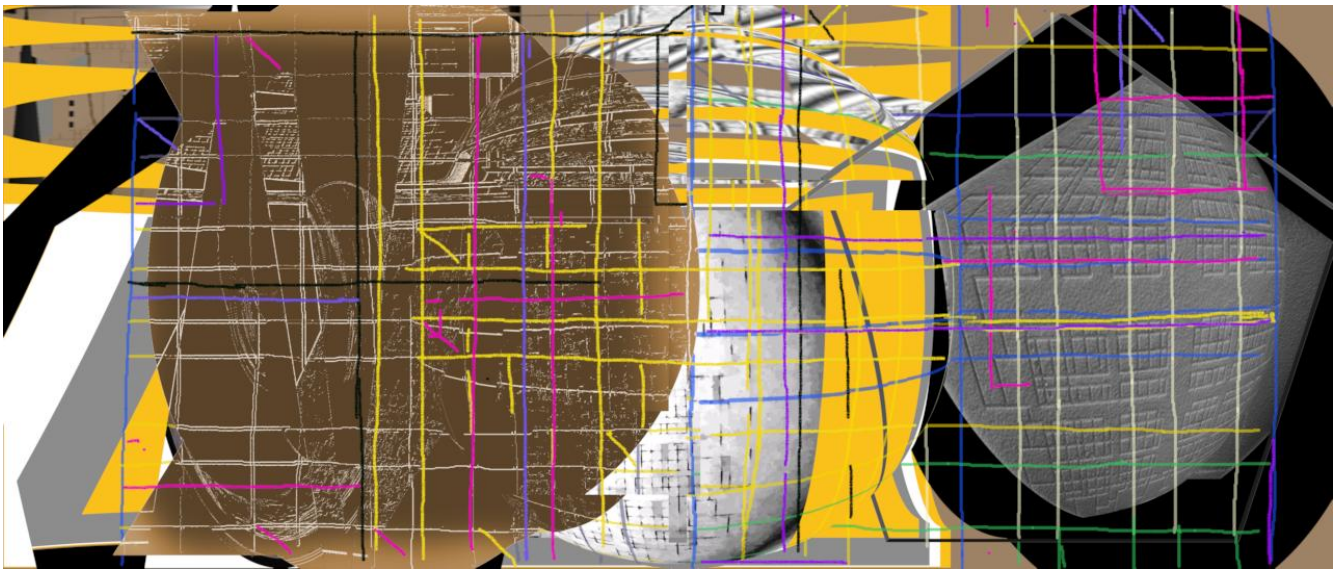

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Bridge 9

Exotic Spheres of Flatland through the Eyes of Van's Zebra Algebra

The drawings branching fundamental interest sources an ongoing solution relating the particle groups string bridge to the atomic pi group or "Sporadic" permutations over pi in the latter relating to the bridge constructed by relating the golden section as pi embedded to the physics particles where all this built environment leans to modular tangents relative planar or normalizing placement . In art for example an allegory might be the physics oriented art of Cezanne to the mathematics oriented art of Morandi... my

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own art of drawing relating to physics as an art form in itself of the highest order.

In this the ninth bridge of the series and relating this time the W boson to the Suzuki Sporadic group they share an exotic point as bridge based on .2236 which is the half ratio of the reciprocal of the square root of 5 itself parent of golden section.: and the idea of an exceptional point as the gain and loss input modifying an environment and it's travois where the slips in terrain and adjusted (adjested? number of zebras pulling the dog sled might reach an equilibrium or a person walking Manhattan street find themselves stationary as street itself extends...even accompanied by partner who changing gaits remains side by side... as the original

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flatland opened with a sphere passing through a plane there is a modification to this experience that this exceptional point can be shown to build on an exotic sphere concerning slicing infinity but to begin at a beginning:

The W boson's value of 80.37 metric to mass is in reciprocal .0124 and this is the half ratio of the fifth turn of a spiral constructed as .618 the golden section module from .4472 the reciprocal of the square root of five. Focusing then on the complement of this area or area remaining to compose unity as square that number .9876 to the negative sixth power is .6708 or three times the half ratio of .4472 and the reciprocal 1.49 divided ten is value Gravity to its metric of 6.674 and this as

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in reciprocal .149 times three is .4472 which pairs also with the value of the electromagnetic constant which at 8.927 to its metric and .112 in reciprocal is time 4 also .4472 suggesting then that link to the W boson as the Higgs diplomat so to speak.

Turning to the Suzuki Group (Suzi) the value 448,345,497,600 in reciprocal 2.2304 is very close to 2.236 the value of the square root of five. 2.23 to the negative third is 1.49 or the value of G as we have described to its own intersection then as divided ten and multiplied three to then what we perceive now as an EP because 1.49 is in reciprocal .6708 as begets the same term from the W Boson through the process of a gain loss occurring in the

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momentum space of reciprocals as built in gain loss intrinsic angular momentum so to speak... a vector running through Flatland like a street in Manhattan occupied by only one person would make that displacement a kind of cut in infinity and the directions of the vectors where the healing of the cut was placed in one direction like a shadow would create a difference in speed of the two directions where the shadow would seem progressively smaller... but if this becomes a flatland dome where circles describe infinity with gaps between then these resonators will spread out and magnify... In the Algebra I create then the progress through quadrants is considered a left-wise view... marked by operators of the values of (i) progression alternating 1

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and negative one : also values of .788 the root of the golden section which in reciprocal has halves of .6336 then unity plus square root of three composed of twice the reciprocal of pi... as well as a progression through values of pi in form of .56 which squared is approx. Pi and .56 as 1.7854 finds .7854 complement of reciprocal of Feigenbaum and times 4 closely pi , also .101 as pi squared and times seven square root of 2. A midline is composed of harmonic manifolds listed to an index of ten sorting their sequence, and also an axis of the relation of .2764 and .3618 as a tenfold where .2764 or 1.309 in reciprocal(as doubled 2.618 complement of golden section) whereas .3618 times ten and 3.618 has as reciprocal .2764 thus a

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tenfold with EP potential I like to link to the Liouville Transcendental as ten fold sympathetic indexing. Normalizing these ten folds then essentially becomes the right wise reading which is then interesting to interpret toward quaternion axes i,j,k , 1,-1, -i....

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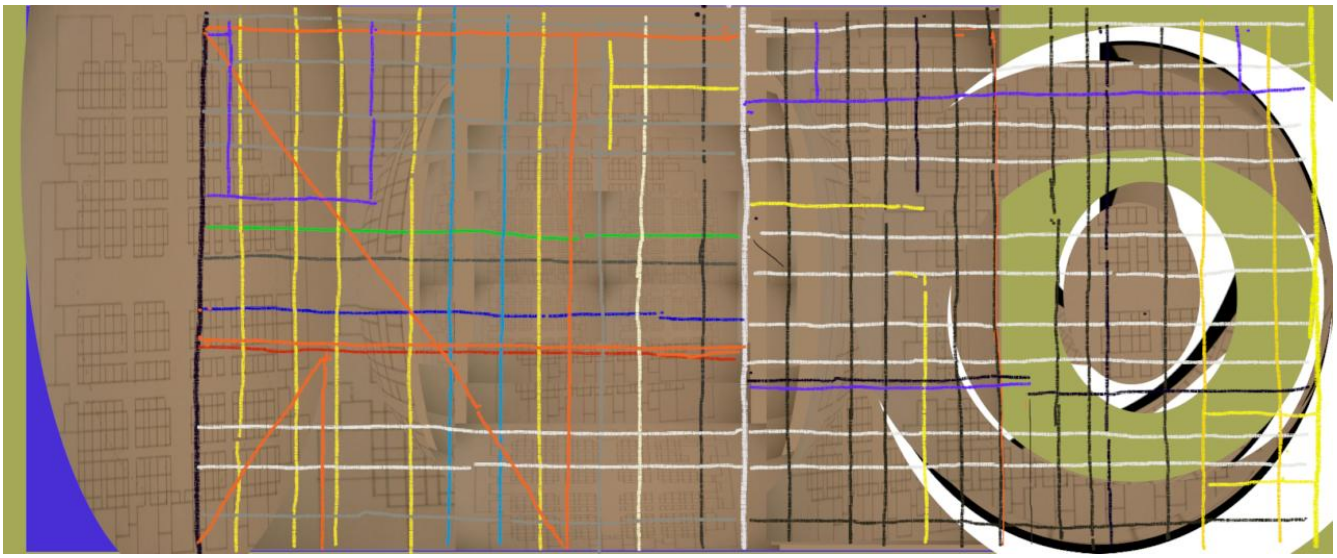

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M. Moon Shine Liouville Bridge 10/26 : The Tau of Tau Particle and Pi

: The Tau of Pi Through the Hamiltonian Gates to the Bridges including the Exotic Spheres of Exotic Atoms...(Here ancilla to Moonshine Monstrous of String Theory to Atomic Pi the Sporadic.

The relation of Tau as specifically relating pi to quadrants and then again the symbolic representation to calculus is interesting to me from outset where the nautical arrangement of Tau caught my eye when I realized each division sparked vivid memories of childhood on boat in Hawaii where I strongly correlate in my memory

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those degrees of view (presented in a nautical device at wheel) to the scenery in an altogether Proustian experience .. which here continues as a mathematical landscape so to speak... As the arcs in the upper half quadrants combine one circuit and the lower two then this features 2 pi formally and twice Pi specifically 6.28 , therefore a threefold of arc halves as 6 result in an overlap, just as for example the reciprocals of square root of five twice applied in a square have an underlap of .1056...

So: my conclusion is that .28 can be divided in half as .14 (which is close to .1416 added three is Pi)... and parenthetical question... is the complement of pi transcendental or a form of

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mapping?...where those .14 loadings as sheer are the complex function at orthogonal wave transpose (the two .14 elements are moving in opposite directions which meeting the half plane create a center spike combining in one sense to lower plane but then again divided by that center... the degrees of Tau also follow the quadrants so adding to one quadrant that passage is subtracted in place because it now "exists" in the next quadrant so a plus/minus or loss gain vector is implied thus essentially a bra-ket in phase space. In particle physics this aspect might be called Bremsstrahlung or a braking radiation...

Turning to Tau as the physics Particle in relation to the Sporadic Group as represented by the O'Nan Group value

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460, 815,505,920 in reciprocal 2.170065 and this divided unity .4608 is times three 1.382 reciprocal of .7236 which has complement .2764 where .2764 in reciprocal is 3.618 and .3618 in reciprocal 2.764 thus in itself a kind of tenfold diabolical point.

The Tau particle as mentioned the only lepton which degrades to Hadrons and specifically Exotic Atoms which substitute for electrons a swapping to other particles in this case muons and thus in the transpose a relation to Exotic Sphere counter surfaces... and since the Muons value to metric is 105.6 or 1000 time .1056 (the afore mentioned gap space between reciprocal of square root of five twice

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applied in unity space) this can viewed in relation to the Tau particles own value of 1777.86 to mass metric and in reciprocal .5624 = .56 approx = in reciprocal 1.7854 where .7854 times four is pi... because .1056 times three= the reciprocal of pi and .1056 times 12 is 1.27 which in reciprocal is .788 the root of .618 the golden section module. The complement of .788 is .2112 and is both twice of .1056 and also as doubled from .2112 then the complement of the square root of three.. (and .1056 times three is the reciprocall of pi just as that doubled is the half ratio of .788 in reciprocal form 1.27 thus .6336. In the mathematics of the quadrants then we find that the reciprocal of the square root of ten plus the reciprocal of the square root

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of 11 is .618 also and the square root ten as approx. 3.168 is ten time .3168 where .3168 is the reciprocal of pi, and similarly the square root of 11 as 3.3168 approx is three times unity plus the reciprocal of Pi...therefore each quadrant as unity placing .618 places those embedded values of pi and the complement of .618 automatically inscribed to unity as .382 is in reciprocal 2.618 thus also maintaining the embedding of pi.

The complement of the reciprocal of pi or .3168 is .6584 or 1.518 and .518 as in reciprocal is 1.927 thus .65 plus .6336 plus .64 where .65 in reciprocal is unity plus three times the golden section module .6336 is unity plus the square root of three and .64 is 1.56 where .56 squared is

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approximately pi and .56 as 1.7854 finds .7854 closely pi and its complement in reciprocal is the Feigenbaum... while .518 is root of .718 and these added .618 are unity plus three times the golden section module as 1.854 thus a braiding structure defines the complement of Pi.

The Liouville transcendental frames the gain scenario as the inverse square law the dispersion from their similar structure but opposite eigenvector direction where such shift indicates a loading of information as sheer force such as the overlap we have seen of the Tau mathematically as as we splice it to a complex function. Of 6.28 of course .28 times two is .56 as described previously carrying the information of of .56 as 1.7854 where .7854 times four is Pi...

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Thus the seeming symbolic representation of pi has been shown to relate to the actual embedding of pi while the structure of Tau mathematically has been given over to a wave function based on the loading value of functions per overlaps as information and in which also the value of .28 there is linked to the overall pattern of .1056 or interval between twice the square root of five figuring in denominations of it's three fold as the reciprocal of pi. Also we have seen the golden section in those terms strictly defined as a product of pi operators in form of square roots of ten and eleven, and we have seen the root of the golden section and its complement similarly defined. We find Tau the particle also defines to this process with overtones

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of relating Exotic Atoms to Exotic Spheres. The Sporadic O'Nan Group has been defined in terms of the golden section and thus likewise there the embedding of Pi.

Given the previous my question is to consider for example an Archimedes spiral as essentially centered to analogs of root such that masses entertain that center analysis and insofar as this attends a sense of such ideas as thermal dispersion relative complex density such as the tau construction it places a kind of coding on the information of overlaps as a sheer or information structure Hamiltonian in both the senses of spatial penetration and overall energy such what intrigues me is how the q line map modified by alleles may composite map what may be

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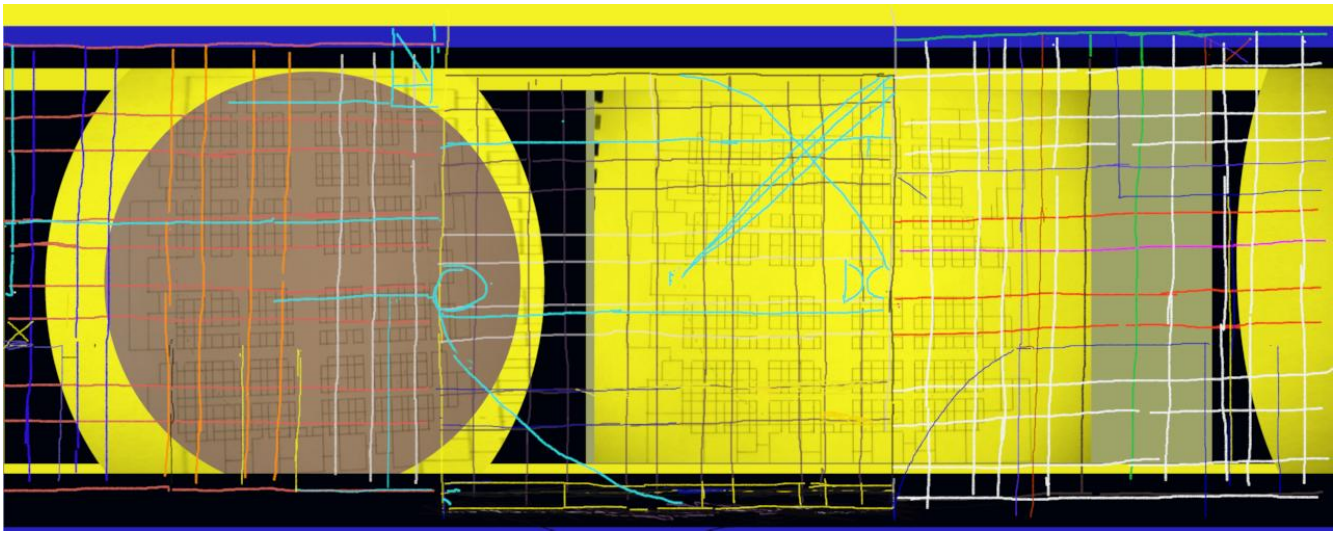
irrationals in pre image become transcendental in image markable by something like Penrose's Pattern in which residuals mark phase space via infinite extension



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Bridge 11

Gloss on The Glass : A Bosonic Fermionic Q line string through a Monstrous Moonshine Harmonic Bridge Estate. 11/26 Pont Lissajous

Math is to Physics as Drawing is to Art and Mathematical Drawing is in this case the bridge of Homology Chains by which I entertain the prospect that for example supersymmetry might not be the case of comparing objects but rather a quantum state of what might be termed spin decay. Whereas within Homology chains which then can relate structural differentiation to unity and mod in a wraparound of contained information within phase space as momentum engaged to critical

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differentiation in the math there is then also a tunneling of fuzzy numbers which comports topological variance and an n dimensional chess is structured to a queens diagonal so to speak of Pascal's Triangle under morphological conditions as the knights move, and triangular matrices as the Queens Constraint and in which the idea of the diagonal has a morphology from "p take K" of the Pascal matrix extended to "e" take k take pi take "I"... as wrapping around the n dimensional...

Just as the ragged shape in Duchamp's Glass of the upper regions might be termed a rough sketch of a smooth curve where that curve was his 'stoppages or supposedly dropped strings which form a curve meaning essentially this must have

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mapped from a tangle onto a base considered as curving from outset in some momentum referencing Einsteinian space…

So then also may I reference “composite mapping” in the sense of functional derivative in their own phase space by establishing dual horizons, one which uses the flux status of irrational numbers and another referencing the wraparound of transcendentals… These being the original vedute of capriccio (reference 18 century drawing terms meaning view and improvisation respectively sympathetic to music) which outline the massing of a bridge I create between the sporadic group of atomic primes relative the golden section harmonic I map to these and also the physics particle under the aegis of the

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embedding of Pi within the golden section and so then consider unity to mod in these terms as bosonic to fermionic modes linking the physics particles as relating between the 26 original “bosonic” string groups to then a fermionic relation of charge space to chirality in the link between the 26 string dimensions and the 26 Sporadic or finite groups termed Monstrous Moonshine in that connection…

From a certain personal construct I am beginning to relay or “we” in the queen’s mode I am embedding a string of formal theories which have been put out towards linking the bosonic and the Fermionic contexts as coordinates. One of these of course is Q deformation theory which I have intimated as meaning essentially that

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within fuzzy numbers as fallout or a Bremsstrahlung (back radiation) of spin decay as I put it within partial derivatives and their relation to linking Unity and Mod process and even infinities as modular or unified... other theories observe from various vantages that bosonic and fermionic may be separately observed by analytic but recomposed as one can effectively hardly have a force carrier with out its resistance or object e.g boson and fermion via the differentials posed to Dirac analysis and Path Integral...

The two base lines I establish are meant to be “exotic” in the sense that they map a kind of convolution between them like that of the mobius structure pertaining to the famous “exotic sphere” and so entertain a

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kind of exotic winding in the mapping of dimensions n to k via force of e, Pi, I to begin with... in their essentially affine projection space formulated to "Van's Algebra"...which I have previously described and set forth...

Pont Lissajous

One must acknowledge of Duchamp's "Given" that he puns the transparency of the "Glass" as bringing to transparency that AlB or A given B is precisely not a discrete case as in the indexing of A_n But Rather states the probability class of the first notations meaning directive... he is marking by remarking that the word is a case of it's own opposite meaning...(Duchamp tends to be the doctor of pitfall...)...at any rate I learn from this that

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Ai is a bit like stating ones turn in a game… where “turn” devolves of Greek “tropai” or transpositions of fate….

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Track and Trace of Drawing Events

At the outset the directions are distributed over relating pi as embedded in the golden section as an analytic over the physics particles and simultaneously the Sporadic Finite Group of atomic pi structure as a building the bridge of Monstrous Moonshine according to this construct.

Along the way the distinction between pi as symbolic in calculus and manifest in the unit circle or Tau are also bridged for the same reasons of harmonic to pi embedding.

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That this pairing subsides to complex space raises another potential bridge:
: If the Feigenbaum as spatialized per phenomena thus allows a Hamiltonian to persist as a scalar over deviant information does the structuring forward to its octonian ijk 1,,-1 axes as recieving entropic information from those elements of stability *simultaneously* measuring stability to some degree suggest a relation to Riemann conjecture intercepts of roots with deviations as elements of order granted at outset

Thus from From these original finite resources there comes next bridges to infinite extensions, flux, and chaos in relation to it's "complement" e.g. order...

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One can see the general direction here then is toward intra-universal Teichmann theory of neighbor-hoods or universes and in addition I am interested in considering Super symmetry not as a comparison of objects but possibly a form of what one might call spin decay as spin may be composed to Archimedean as well as Lissajous curve and considerations of speed increasing on a linear infinity where a section cut to heal would mark one direction longer thus slower and the center would relative those advances shrink, yet if the infinity is presented as circular or spherical the gap space will grow with additional enclosing circles or spheres... to which I am interested in considering irrational numbers as introduced into the

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Pythagorean triangle and creating the realm of chain complex homologies… towards which then also transcendentals contribute their “wraparound”…

Ponts as bridges I am interested in relating to Points, ie as a conflux the relation between Exceptional points, Diabolical Points, and the Saddleback which seems to indicate the complex theaters…

By Damping composite mapping of Determinants as spectra the relation of transference from n to k dimensions carries the overtones of the realms of possibility to the realm of probability…

Finally then the origins of string theory leading to the classifications comparing string dimensions to atomic Pi Sporadics must take in a translation to the

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Fermionic... essentially I relate to Q definition in this respect as carrying the substance of chain complex homology...

If one takes the real and complex sides of the Riemann construct for the Hypothesis the order of imaginary numbers gives the right side subject to Tau or the unit circle and the left side the symbolic calculus of 4 pi which under analysis actually yields a relation between pi embedded in the golden section which can be constructed in the quadrants notably because the inverse of the square root of ten and likewise of 1 add to equal the section where again ten divided 11 gives 1.1 and a recursive view over the tenfold... The feature then of the unit circle mapping to quadrant is essentially a sinusoidal wave... and the

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value of Tao as 6.28 is that of an overlap, contrasting say with the underlap of .1056 as between twice the reciprocal of the square root of two In a square… thus this is added energy and bring us into the realm of a shear force towards chain homologies just as the information of the Pascal's triangle if given partial differential perturbations changes in like mode.

The numbers .18 and .81 as transpose are disjoint, as .1881 they become palindrome and diabatic… so looking at Eulers 2.7182881828459 as "wraparound" transcendental where we see 2.718 and .8172 as reverses in which .1828 is the complement and .172 is complement of 828 and 2.828 is the square root of 8 we get a sense of this wraparound skirting dis

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joint and adjoint behavior in a meromorphic substantial function. The value of the convergence ratio of the Riemann zeta fx as .6465 is approx. .65 and this occurs as a ubiquitous ratio in the golden section harmonics the reciprocal then 1.927 is .65 plus .64 plus .6336 where .65 in reciprocal poses unity to .5393 which in reciprocal is three times the golden section module, and .6336 in reciprocal is 1.578 or unity plus the square root of three and .64 is unity plus .56 which squares is approximately pi and .56 in reciprocal is 1.7854 where .7854 times four is pi and its complement is the reciprocal of the Feigenbaum therefore presenting a relation between the Feigenbaum's simultaneous study over order and

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disorder as complementary functions per category theory. (it is also true that the tenth part of the Feigenbaum as .466 if cubed is .101 or Pi squared)

True also is that .518 is the root of .718 and these added to .618 =1.854 or three times the golden section module... creating a matrix for these three folds becomes part of my analysis of the relation between The Harda-Norton Sporadic Group and the Pion mass value via studying the embedding of pi in the golden sections which over them analytically creates their bridge..

The Pion, and the Harada-Norton Sporadic Group-comparison, as follows:

Harada-Norton value 273,030,912,000,000

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=3.6625 approx inverse =.273 times ten =2.73 in reciprocal .3663 complement .6336 = 1.578 where 1.578 =1.73 thus the relation of .6336 to its complement. .6336 figures in the braided I have mentioned in a matrix of the terms of 1.927→= .65 plus .64 plus .6336 as a threefold relative the three fold of .518 plus.618 plus .718 where .518 is the reciprocal of 1.927 as a wraparound structure…" 3.6225 to neg 8 is 1.01 or ten times .101 where .101 is pi reciprocal squared. ,273 to neg 3 is .7236 or 1.382 in reciprocal thus unity plus the complement of the golden section module and the complement of .7236 as .2764 is 3.618 where .3618 =.2764…as a kind of violin shred as it were.

The Pion

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The pion which conserves the strong force in interactions with w bosons through the “residual strong force” is in that respect representing an incredibly complex chain of reflexive and multi mathematical analytical functions which accompany this process and is aptly analogic to the interest I have in rational and transcendental baselines generating shear energy which like the structure of the quadratic to unit circular tau construct on pi may model differences between Archimedean and log spirals as the surface differences of exotic spheres and these projected to affine space and these again relating to the mobius exotic in an ongoing set of Riemann like sheets or sheaves...under the aegis of Intra Universal Teichman theory mode of

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approaching a structuring of Chain complex homologies open to presenting Super Symmetry not as a comparison of objects but states of n to k dimension interplay of possibility to probability working on something like a spin decay principle analogical to Bremsstrahlung... or braking radiation... from gain and loss principles allowing exceptional points to function simultaneously as islands of order within chaos and then again of chaos within order with a consequence on considering the value of the Feigenbaum particularly from the stand point of the its complement as equaling .7854 and this times four pi thus an analytic of order in its own relation of order as the complement of chaos in its structured comparison as it's

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own mode... the pion at 139.54 mass to it's metric is in reciprocal .0073 which belongs to the neighborhood, universe, or class of harmonic values as suffixes to golden section derivatives between .0019 and .0019 preserving that ten fold in their structure as .0019,.0028,.0037,.0046, .0055, .0064, .0073 (pion value) .0082, .0019.

.0073 to the negative third power is .292 or twice .146 the fourth turn of spiral from .618 inclusive and .0073 to neg fourth is .5393 or in reciprocal 1.854 thus three times the golden section module. One recognizes .0073 for example In C_speed of light where .2997 to its complement .7003parses separations of .0073, .073 .73 , .703, .7003 and the difference between .73 and .703 as .27 and between .703 and .703

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as .027 mark .27 as times three .81 the ordinal tract of the reciprocal 1.2345679 which figures in most algebraic conditions.

Therefore, taking the 1.854 signature from the Pion and the .6336 signature from the Harada Norton I place these entries as formulating towards the chain braid matrix of .927/.5393 combinatoric three folds.

Big o bypass and little Oh

We have observed that the convergence factor of the Riemann zeta is .6465 in relation to the sinusoidal wave created between the left side quadratic and re thus this may be approximated .65 or the reciprocal of 1.854 as three times the golden section module. However in the matrix I construct the value of .518 times .6336 is .6564... if entertaining the

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Riemann instead to little Oh and .6564 to little oh also the terms added of .65 and .64 equal 1.0156 where .0156 equals 64 per then the 8 fold matrix scheme of Gell-Mann. Taking the number .112 as the magnetic vacuum constant the complement of .888 is 1.126126... and that implicit squaring of .126 will equal .0156...

These processes seem to start out skirting numerology and highly speculative motions before they arrive to referent paradigms but this is because numerology and speculation-as-hypothesis throw out clues to formal mathematics which it invites one to find and distinguish to orders as is my near- method of navigation leading correspondingly to an appreciation of Intra Universal Teichman and Q

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deformation modes of relevant referent paradigms...

My drawing mixes various neighborhoods to continue this combination which has invited in the Reimann connections where a continuity over references to .65 invites exceptional point also then Eulers in reciprocal .3679 squared is .606 or unity plus .65... summing .3679 ,.788 (root of golden section and 4pi (reciprocals) +also Tau the unit circle as .1592 THEN = .8726 or 1.146 where .146 is the fourth spiral of .618 inclusive... and the complement- .127 of .8726 times 9 is 1.146...

The structure mentioned of the Feigenbaum as having its complement towards order as .7854 and times four pi finds also that .2146 to the ninth is 7.88 or

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ten times .788 the root of the golden section and the root of .788 approx .888 will give the 1.126126 irrational number of which those blocks as implicitly squaring find .0156 or 64 the 8fold matrix instrumental to Gel-Mann...The matrix of the three folds embedded within 1.927 and .and 1.854 also relate to the first group doubled as the complement of the second, along the way there is studied three particular routes to the number .606 or unity plus .65 where .65 is unity plus three times the golden section module and those routes are the reciprocal of Eulers number squared, the Feigenbaum at one tenth value cubed,as .101 or pi squared then multiplied by six... and also Riemans zeta

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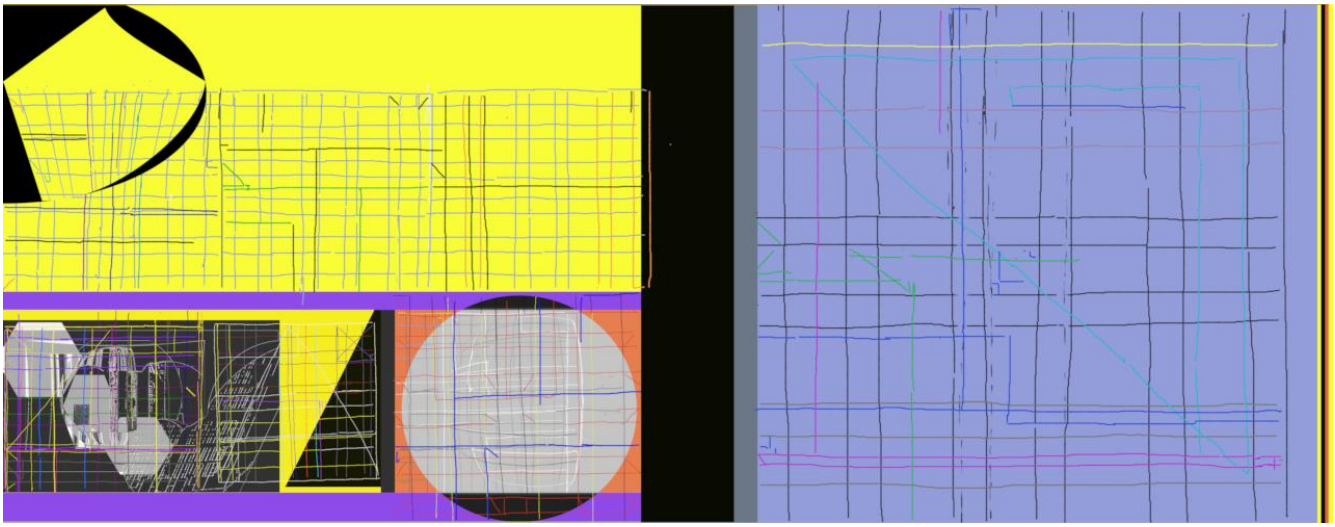
at value 2 is pi divided 6 and is 1.65 approx = .606...



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Moon Shine String Bridge Plasma Braiding Regrained Architectures

A Kaon /Anyon Exotic Sphere Bosonic to Topological.

M. Moonshine String Bridge 12/26

In this drawing the ongoing theme of distinguishing Pi as embedded withing the golden section as analyzing the physics particles then compared with harmonic values pi embedded within the Sporadic Finite Groups of the Monster (along with some of the associated "Pariah Groups " as in this case... is a theme which finding mathematical "exceptional points": of gain loss equivalence wherein the Kaon as a particle which uniquely does not preserve the quantum strangeness number is compared with the potential evolution of

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Anyons or two dimensional quasiparticles where quasiparticles are defined in either two or three dimensions + as dressed in the excitation of their environment, the quasiparticle then a kind of aura as it were... of which the anyons preserve their charge in variety and this has the same effect as the Kaon not preserving strangeness thereby eliciting the formation of new particles. Moreover, within the potentials of the anyon are the Fibonacci anyon and this then couples to the general idea of the embedding of the golden section....

The Kaon as 493.65 it's mass metric is to negative seventh power 1.101 or unity plus pi squared. To the negative five it is 1.472 and this doubled is 2.944 and this to the

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third 1.309 and doubled 2.618 in reciprocal .382 or complement of the golden section module.

The Lyons Sporadic Group (under consideration) as value 51,765,174,004,000,000 is in reciprocal 1.931 and this to negative 2 power is 1.388 and this divided unity .72 and to second power .518... this number then is a kind of braid which will be compared to the braiding statistic of the abelian Fibonacci anyons and it equals 1.927 in reciprocal which is .65 plus .64 plus .6336 where .65 in reciprocal is unity plus the reciprocal of three times the golden section module e.g. .5393 =1.854 and .64 equals unity plus .56 which squared is approx. pi and in reciprocal .7854 times four is pi and it's

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complement is the Feigenbaum, while .518 has .718 as root and these added to .618 = 1.854 or three times the golden section module, thus a kind of braid.

Residuals of the Kaon... if we take the 493.65 value with .65 the residual (it can be placed to any integer of the value as a shear) and relate to another view of the number via a naïve normalization of it's reciprocal .0020256 as expressed 2.20256 and this in reciprocal .4533 this times 6 is 2.718 or approx. Eulers number and multiplying that residual .718 by the .65 value as then .466 or 4.66 the Feigenbaum divided ten thus posing simultaneously the Feigenbaum and Euler's as disorder and order respectively but relative a transcendental energy wraparound ....

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Relating this to the braiding of .518 would seem, if expressed in a spiral format of log differentials as perturbative bring forward an exotic sphere with interplay between order and disorder on those accounts…

Anyons Anyone?

The Gain and loss pattern by which Exceptional Points can find the codetermination to coalescence and equivalence between eigenvalue and eigenvector reads to the possibility of evaluate these as duals placed as in one sense as poles of chaos in disorder and then again order in chaotic regime… similarly, the evolution from the bosonic conception of the original 26 categories in string theory towards the fermionic was hastened by Dirac's concept of a "second quantization " wherein the adding or subtracting of a particle figures

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in the transforms we see for example that the kaon uniquely does not conserve the strange quantum number and in a complementary sense anyons (2 dimensional quasi particles) conserve color charge in variety between a bosonic bath in plasma conditions or alternately a braiding statistic specifically golden section namely the Fibonacci Anion. Mathematically we have given the analogy of a Lissajous curve as initiating perhaps with the embedding of a Tau value or the sphere and unit circle half of the sinusoidal relation in complex plane to quadrants per the Riemann Zeta formulation and a control in the transforms over the stretching of suffix values to the critical strip orientation and centering wherein also an Archimedes spiral to log may figure as modifying towards group theory the necessary addition function which defines a sine curve which is backbone one senses to the

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Dirac formulation. To this also an energy coefficient tangent with Tau as unit circle and Tau as Golden section may include resourcing irrational numbers as symbolic flux or plasma in relation also to transcendentals as “wrap around”... viewing from the context of handling large numbers as matrices of m by m form the Bogolyubov transform as confining a Hamiltonian to the trace might then resource the necessary creation of a zero diagonal by implementing the Louisvillian constant as a screen or graining as it is used in fact in “machine learning”... I am describing therein the order of the drawing enclosed as modelling this toy world in the general appreciation of Trans-Universal Teichmann theory... devolving upon the original interest in showing Pi as embedded in the Golden section may then analyze all the physics particles and also the Sporadics thus building the Monstrous

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Moonshine bridge... with a few extra overpasses so to speak towards the realms of possibility couched in the probability of expression from n dimensions to K as our Lucky Cloverleaf...

Returning to the Bosonic Bath... the BEC, Bose Einstein Concentrate is of course in a different dimension than the anyons which inhabit two dimension structure as in the familiar compressed matter physics of the graphene lattices,...and the general idea of quasiparticle being then, in either case, a particle which develops as it were the aura of interactions with its environment of which the Bosonic plasma marks the deconfining of the strong force to what is called asymptotic freedom in which the random interactions screen out much of the (incredibly strong) strong force... whereas the anyons as mentioned have two options, they may via vortices or tails which

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extend to the vaccua model a charge although less than that the nucleons of the bosonic extract from the sea quarks...Significantly however the bosonic structure has a quasiparticle know as polaron which responds to alien elements by dressing them as in general a quasiparticle is dressed by it's environment, thus by implementing a low key ripple or phonon like effect the polaron may build a kind of anyon which has those characteristic dual statistics, it may also through experimental means in fact have an anyon 'implanted" as it were through a lattice.

The first gambit of the drawing is to recognize the braid statistics I have repeatedly described of the number .518 as it generate two triads, composed within the numbers 1.854 and 1.927... since 1.854 = .718 plus.618+.518 one can see .618 has been stepped up one and down one as a kind of second quantization

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analogy… a **a marvel of it being .718 is the root of .518 and .718 figures strongly Euler's number…**

At this point the drawing is dedicated towards my Van's Algebra and a toy world in the model of universal aspect of string theory towards Intra Universal Teichman theory and tension between spectral and automorphic forms in Langlands theory wherein the art and language transmutations of Duchamp's Glass are modernized again towards this now Cross Discipline Spectral Theory in which the abstract content of ideas exist operationally within a shearing of contexts producing then their sheet forms as it were over a base line in which the square root of two is given two values, .707 and .708 where the difference creates a "second quantization" which places I,j, k -1,- axes in relation to the Riemann zeta sinusoidal wave which then has sub groups of

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the Archimedes,, Log, Lissajous cure and exotic spheres informing the two Hamiltonians, respectively rotation and system energy… terms from various disciplines are focused on the model of examining the Moonshine spectrum over the physics particles and Sporadics as the migration from Bosonic to fermion structures and the partial differential modes which structure a Graph Laplacian to studying energies in the eigenvectors and bases in the eigenvalues carrying Pascal' pyramid to simplexes of not only ordinals but in a sense the variety of associated disciplines in which the numerical values may disengage a nominal term to a deeper abstraction in the rotation of and sheer through fields… The physics model of the bosonic Anyon is featured in the current drawing in relation to the braiding statistics into the golden section… which we have discussed in terms of

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asymptotic freedom and the like in our previous ancilla on plasma likelihoods towards the realms of probability and possibility we borrow the proverbial feather as it were to create a “feather” by which I mean a linear structuring of the matrix over the braided grouping of .1.854 and 1.927 where the multiplicands of those two three folds then from that linear model give a base line and suspension mode towards the over-all drawing... and a kind of gravitational field is composed via diffeomorphic energies encountering a meromorphic fielding of statistically separated yet adjoined Exceptional points controlled by a Saddle back and with zeros of a sort in diabolical points in which Categorical Theory Polarons as it were dress in particular the circuits and selected density waves through determinants over the endomorphic graining path of embedded

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dimensions signing and tracing Eigen value perturbations in the Graph Laplacian and super symmetry parallel transport in the guise of a spin decay view of the Isomorphism to automorphism to Endomorphism preliminary spectra on n dimensions to K proposed implicitly at outset by Pascal's Pyramid and Triangle towards Minkowski space time and cone...towards affine and exotic determinations of choice...

Where: diffeomorphic is the embedding of transitional terms sharing force in their covers or completion towards a topology... meromorphic is the diversification and unpredictability of energies at certain poles, isomorphism a mapping and endomorphism a self mapping or category structure, and graining is the effect of subsets and their focal interchange and braiding is duality like the DNA helix...and polarons as you remember are

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quasi particles (particles with the aura of interactions with environment as added energy which act on out of context elements by dressing them sort of like a molecular inflammation response... leading in the case of their base to anyon formulation a diversity between linear and spiral symmetries.

The feather or base summary of the 1.927 (reciprocal of .518 and of 1.854 reciprocal of .5393 and three times golden section module as braiding structure are placed as embedded in a ratio strip of .112 as the complement of .888 where the root of the golden section as .788 hass.888 as its root and the reciprocal of .888 as 1.126126... is intriguing as .126 squared is .0156 or in reciprocal the 8 fold 64....112 itself corresponds to the reciprocal value of the electromagnetic vacuum value and so placing the products of the matrix their value within that strip sums to .418 and thus complement

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.582 where .418 to seventh power is 2.927 in reciprocal .3416 of which the complememt.6584 is 1.518 while the complement of .418 as .582 is in reciprocal 1.718 where .718 is the root of .518 the structure of the 1.927 as reciprocal of the braiding matrix .

Accordingly, going through that matrix of .518 x 5393 from their reciprocals which compose of .518 then as 1.927 a threefold bracket of 65,.64 and .6336 and .5393 as 1.854 a three fold of 718,.618 and .518 this series towards summation produces →.718 (.65) =.466 which is the tenth part of the 4.66 Feigenbaum value...→.718(.64)=.4595 which squares is .2112 and complement of square root of three→.718x(.6336)= .4549 which squared is .206 and times 3=.618 the g.s. module→ .618x(.65)=.4017 to neg 2 is .6336 or unity plus the square root of three→.618x(.64)=.3955

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squared = 0.156 or ten times .0156 which =64 and .64 then unity plus .56 which squared is approx. pi and .56 as 1.7854 finds .7854 times four =pi and its complement is the Feigenbaum thus demonstrating also chaos and order as complements...→.618x(.6336) is .3915which to the negative 4 is .888 complement of .112 the magnetic vacuum permittivity in reciprocal while .888 as 1.126126 finds .126 squared is .0156 in reciprocal 64 as previously compared then to .64 while also, .0156 is a value from .4472 or reciprocal of square root of five parent of goldens section which successively multiplied by .618 7 times will at .0156 then be that threshold of spiral and .0156 will evenly divide a golden section Hermitian quincunx grid such as I devise for my drawings...64 times...(approx.)→.518x(.65)=.3367 to the neg.4 is .8726 reciprocal of 1.146 where .146 is the fourth turn of golden section

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spiral→.518x(.64) =.3315 which times five is unity plus .65 where .65 is in reciprocal unity plus .5393 which in reciprocal is 1.854 or three times the golden section module→.518x(.6336)=1.64 which we have described as unity plus .64 where .64 is 1.56 and .56 squares approx. to pi and has ancillary relation to specifically pi and the Feigenbaum...

Then taking the sums we have described in the organic production we list .2112,.618,.6336,0.156,.888,.606, and .609 which sum to 4.5944 in reciprocal .2176 and this to the negative two is .466 or the tenth part of the Feigenbaum and this number cubed is .101 or pi squared from reciprocal and this times seven then the square root of two and times 6 is .606 or unity plus .65 where .65 is unity plus the reciprocal of three times the golden section module... we remember then

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also the first term of our matrix at .65 times .718 also was .466...

The form returns us to Fibonacci anions where energy potentials in plasmas and in lattices can create a vibrational dressing over a perturbation which optionally may link into either a path integral globally or else locally find a braiding statistic the dimensions of the braid as we described in the detailed matrix then correspond to a relation we can map between the physics particle of the kaon and compared to the degree of the Lyons Sporadic where then on the one hand the value of the Lyons in reciprocal is approx. 1.927 or the .518 value of our braid matrix while the kaon at 493.65 to its metric is in reciprocal .0020250 which by a naïve normalization we can describe as 2.20250 which times six is approx. 2.718 in reciprocal .6793i and this to neg 2 is .46 the complement being .5393 approx. or the

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1.854 term of our braid. As an ancilla we can note that the 493.65 term is 1.472 in reciprocal and this times four is 5.888 where on the one hand 888 gives us the familiar 1.126126 itself as irrational a kind of plasma analog and 5.88 is ten times .588 where .588 = 1.7003 of which to .7003 then .2997 or the speed of light is complement...

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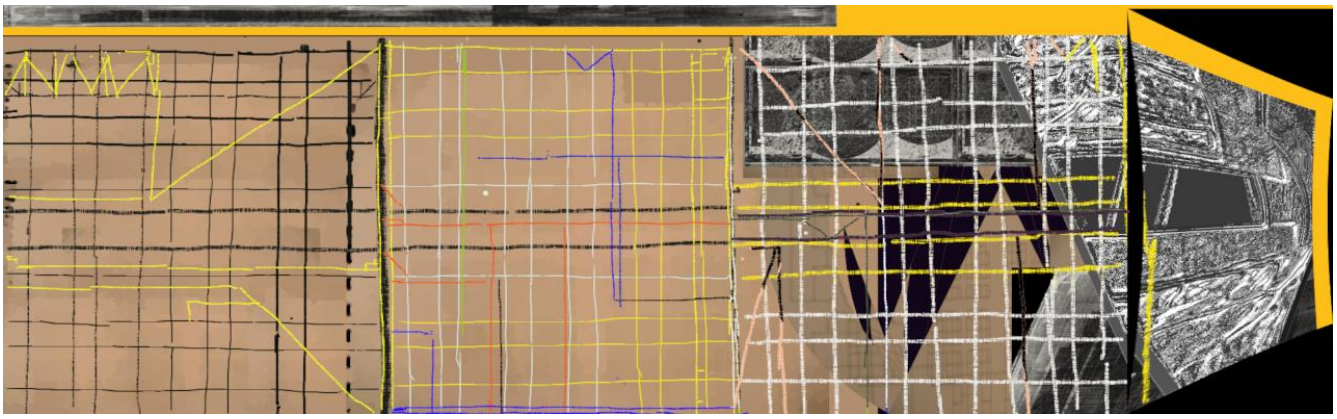
360c3



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Moonshine String Bridge 6/12 Across the Thompson Group and Proton as he Mobius LaGrangian of Temporized Staging Orders of Gap, Lap and Band...

Considering the kind of confinement ordering to an infinite extension suggested in physics by the photon as a massless boson contrasting in return with a meson boson which is confined by the strong force this drawing will take the general endeavor to relate Pi to golden section as relating to harmonics over Sporadics with that information bridge to carry on this Moonshine Bridge also a view over dualizable structures , in the case of considering meson confinement a view over the Yukawa equation bridge to Columb coupling constant and also the relation of Exceptional points as placing both to positions in chaos and order, of the Feigenbaum as having a complement which

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times four is pi thus demonstrating order and disorder as themselves complements, also the Riemann complex zeta in which a quadrant rotation is sinusoidal to unit sphere, and engaging Reiman sheets as Dedeskind cuts which may suggest an affine projection...and the order by which a repeating decimal (I choose .888 as the root of .788 which is the root of .618 where .888 = 1.126162.. and squaring these and also multiplying by the consecutive exponentials the results in complex plane will be rational between 2 and ten to only the roots of 4 and nine... and along with this an ordering of basis vectors per Pascals triangle mitigated by partial differentials towards those Lagrangians as relating in a sense sheer energies thus similar to perturbations created by the massless photon not affecting its infinite trajectory as opposed to the meson confinement of boson

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to quark color mass which restricts to locality and strong force.

Considering this article:
https://als.lbl.gov/mapping-the-quantum-landscape-of-electrons-in-solids/

It appears a wrapped sphere motif is a kind of revised calculus and the band systems as they relate momentum as inverse space are possibly suggestive of an exotic sphere interpretation while lattic systems projections from crystal face might relate to geode... a somewhat related question is to deep inelastic scattering relative flux tubes, does the space between the quark points become related in a sense to bands? Are the bands in sense mobius thus the exotic sphere over the spherized calculus to possibly sphereized Dedekind cuts? The Protons relation to vaccua and sea quarks

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makes one wonder if this is an " irrational space" extension of an irrational linearly considered... in the enclosed drawing I mimic sea quark space by using inverted stars, ie an inverse coding of polygons and their arbitrary interlocking is on a golden sections grid, where the green line is the value of strange mason at 493677 in reciprocal 9.937 and divided into one .10063 this to negative second power .3172 approx. the .3168 of the reciprocal of pi... while the purple line is proton at 938.272 in reciprocal .0010657 and this to negative 5 approx .65 = in reciprocal approx. 1.5393 or unity plus three times the .618 module...

Those values from the particle side of the spectrum then are bridge related to the the Thompson Group of Sporadics w. value 90745943887822000 in reciprocal 1.101 where .101 is the reciprocal of pi squared and also the tenth part of the Feigenbaum cubed. That 11

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divided by ten is 1.1 comes into focus if you consider the reciprocal of the square root of ten plus the reciprocal of the square root of 11 exactly equals .618 the golden section module, and that also the reciprocal of the square root of seven plus the reciprocal of the square root of 8 plus the reciprocal of Eulers number =1.1 and in the drawing I have taken the peculiarity of .2764 as 3.618 in reciprocal relative 2.764 in reciprocal .3618 where .2764 in reciprocal is 1.309 and doubled is 2.618 or twice unity plus the golden section module... as a staging for broadly abstracting Yakawas theorem which essentially turns on inverse value to screen or qualify the coulomb values , and in the quantum geometric space of the article on visualizing quantum geometric structure experimentally momentum space is a crucial feature likewise a reciprocal structuring...

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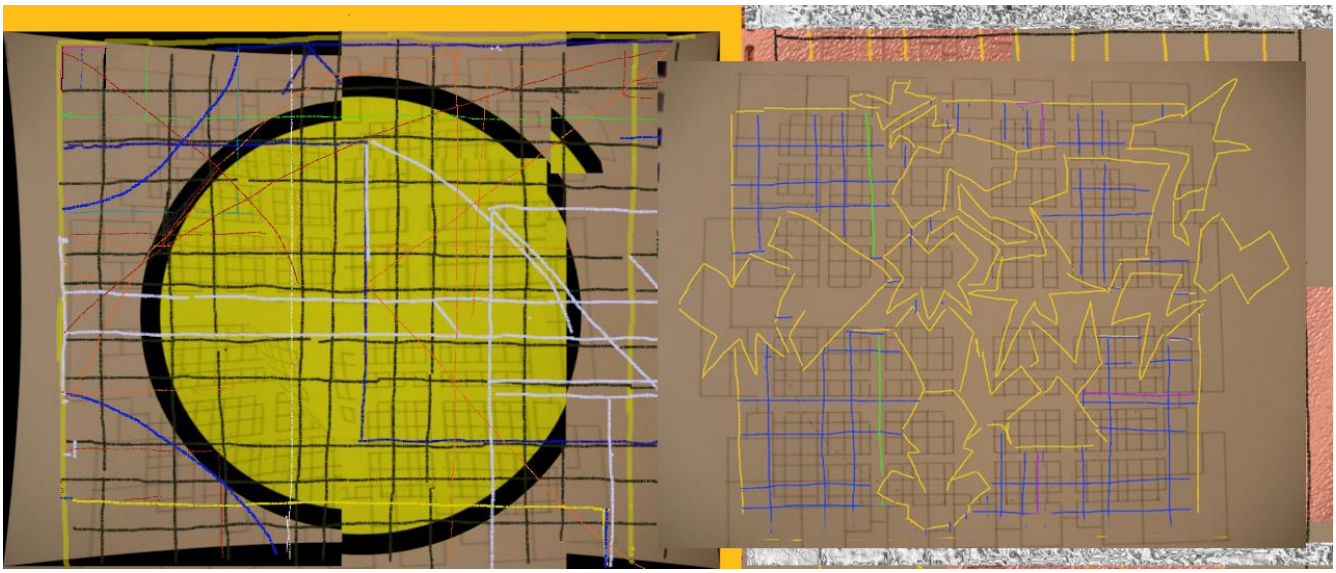

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13/26 Monster Moonshine Bridge Cadenza Up Along a Bottom Omega Mesonic Quark Path w. Cascade Barion Ancilla

13/26 Moonshine Bridge : builds on the particle meson family in relation to the selected sporadic group of the Baby Monster and the mesons selected are the bottom and omega and eta with also a xi cascading baryon which gives the odd number of the meson family and so considering Ykwa analytic over a screening of diversifications which this model presents where particles responsive to all four forces then have unusual variety expressed in the reciprocal nature of momentum space my interest in the original venture relating the structure of the golden section as embedding pi and

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harmonics embedded in the sporadic numbers borrows of this odd and even note the structure of complex space where one might observe a triangular matrix in the Pascal mode if altered to differentials may then organize these differences from unity at center, or placed to edge in a wraparound... thus diamond shape emerges where now the vertical is the hypotenuse and form of the diagonal of square root of two which demonstrates masses... the drawing considers the square root of two as having expression as either .707 or .708 and considers how factorials expressed to successive exponentials then become complex to roots rational and irrationalwhile23,5,6,7,8 are irrational to end root leaving nine and one

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rational...suggesting a morphology of a sinusoidal nature through complex plane.. and a Lissajous curve like tract over harmonic vibrations so to speak..

Mesons particularly eta interest me as being formed in lab thus a kind of language analogical to Sanskrit which was an artificial language created in a fusion of Greek with various territories to create a logic apparatus heavily infused with poetics of which then the designation of some 300 verb forms for drawing inhabit most words of the European language family and others including Hawaiian... Duchamp's "Delay in Glass" I take to be related to the temporal- spatial delay Gellman sensed in particle production and subsequently the distinction of pseudo

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scalars and pseudo vectors as relating diabatic and adiabatic resource to mirroring and duals as structuralizing components...The brief life in lab production corresponds also to the brief periods of entire cosmogenesis epoch which figure to some degree in the particular disjoint where multiple force alignment reorganize axial production and thus one might nucleogenesis and the lab cyclotron are a species of Exceptional Point... While the search for an expanded particle zoo lacks lustre the large number of mesons brings me to the question of whether there seem less obstacles to finding a pseudo particle zoo via pseud vectors and pseudo scalar entries?

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In my drawing I view the wraparound version to be pseudo vector and the centered to be scalar... and in addition to the focal mesons a series of others are randomized.

Diary of a drawing...

...: begin with the matrix which is created by the tenfold definition of .1056... this occurs through the value of the Baby Monster which concerns the permutations of a limited group of primes and the order is

9,154,781,226,426,191,177,580,544,000,000

simplify to 2.4086 and divided unity .4154 and this to the neg five is 1.056 or ten times .1056 which is interval in square field between square root of five twice applied and times three is approx. reciprocal of pi,

e

this doubled is .6336 or unity plus square root of three and that doubled is 1.272 the reciprocal .788 being root of golden section. One observes as well that the reciprocal of pi divided by the reciprocal of C speed of light is also 1.056 and that the square root of seven as 2.46 divided by ten as .246 if multiplied by four is also 1.056...

my interest then becomes to center the 6 fold selection of the tenfold we mentioned as .6336 in two ways, one by splitting a module to center like a bulls eye, and the other is to mirror wholes from a dividing line... the first aspect leads to the partial order completing by a wrap around which to make whole then adds halves to each side thus now an 8 fold and what I will call

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a pseudo vector... while the second in place to six fold I will call a pseudo scalar...

An Unusual Combinatoric:

In relation to the very large Baby Monster I might as well mention an underlying "Trans Universal" neighborhood of my own information process which I will give as a number of harmonic terms as I list them, but as a "number" they can actually be placed in any order as the unusual combinatoric... here:

.7854,.606,.707,.708,.888,.788,.888,.126,0156,.7003,.0019.0028,.0037,.0046,.0055,.0588,.0064,.0073,.0082,.0019,.7003,.703,.73,.073,.618,.382,.236,.146,.09,.0556,.5528,.4472,.2764,.1708,.1056,.0652,.0404,.0248,.0124,.0156,.0082,.028,.6336,.6584,.6854,.3146,.3416,.63,.64,.65,.7739,.188,.288,.388,.488,.588

e

.688,.788,.888, .988,.112,.127, .1828. 1.46 .8726,.427.46,.5393,.4224,.3618,.466,.231,.2146,.101,.427,.428,.9846,.56,.49,.149,.718,.845

,.518.118,.8944,.309.8726,.7236..4086....

these numbers will tend to be the familiar phenomenon of partial orders of golden section manifestations...

The Strange Meson forms take of mass to metric is 896.10 which to negative 2 is 29.992 and close to c or .2997 in reciprocal form times 100,896.1 to fifth power is 1.73 or square root of three... The light Pi meson at 139.57018 to metric is .00716 to metric per mass and to negative 4^{th} power is .5393 or the reciprocal of 1.854 three times the module of the golden section... The Omega Vector Meson at 782.68 mass

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per metric is .00127 and at a naïve normalization then 2.127 divided unity then .470 and in reciprocal 3.292 or .3292 times ten where .3292 times two is 1.6584 and .6584 in reciprocal 1.518 where .518 in reciprocal is 1.927 which equals .6336 pls .64 plus .65 where .6336 in reciprocal = unity plus square root of 3, and .64 in reciprocal is unity plus .56 and .56 squared approx. pi and .56 reciprocal 1.7854 finds .7854 times four pi and .7854 complement of .2146 is reciprocal of the Feigenbaum… The Bottom Meson at mass to metric value 1192.642 is .0008384 and naïve normalization of 3.8384 to neg 4 is .845 in reciprocal 1.18 and doubled 2.236 or squ. Root of five…

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The xi baryon at 1314.866 mass to metric is by naïve normalization 3.7605 in reciprocal .2659 and this to neg third is .718 which in reciprocal is 1.3927 and .3927 times two is .7854 which we have seen times four is pi …

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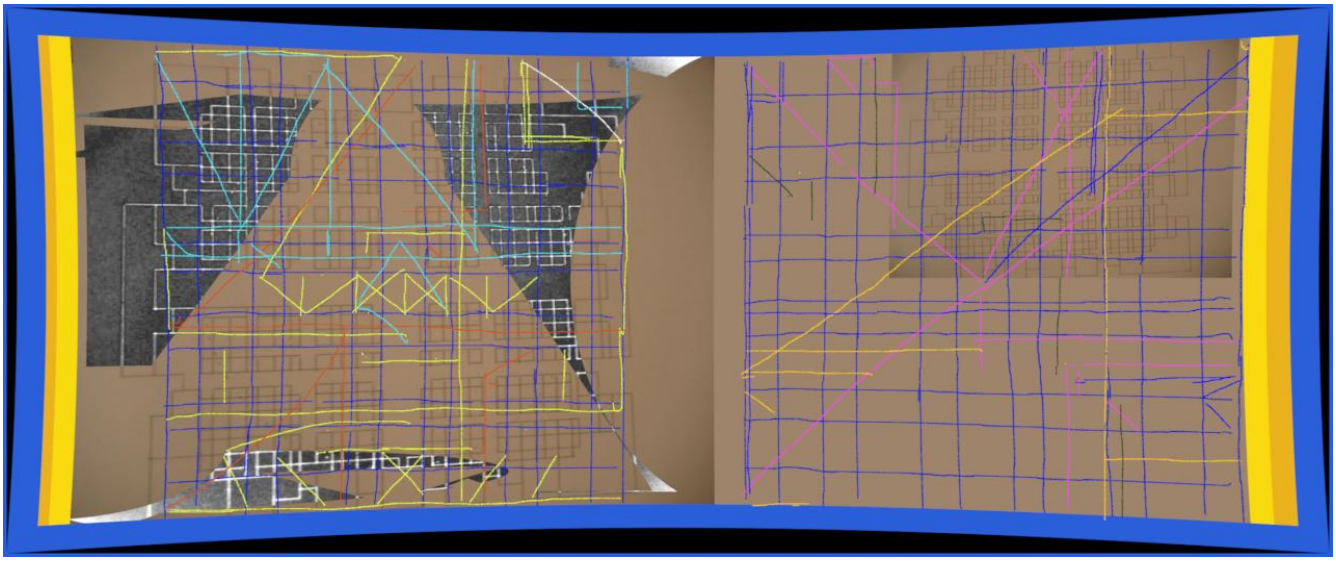

361g2

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14/26 M. Moonshine Bridge String and Spectrum Primes.

The General condition which seems to prime my interest in building the fabled “Monstrous Moonshine Bridge “ via analyzing the golden section content which structures the particles and in a reverse engineering also the Constants as related then to the finite but vast prime composites sharing the embedding then of the golden section harmonic conforms then generally also to the similar relation of our familiar Electro Magnetic driven reality as being resourced from it’s own exhaustion by extension as replenished the by “color charge” … essentially of space itself in

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which the vast infinity harboring vacua levels has in its space time tension and torsion that energy charge termed in physics “color”... forming then Pseudo particles which in the drawing as I propose here thinks in terms of pseudo vectors and pseudo scalars, familiar in the general idea abstractly presented as abba relative aba where the former will indicate scalar zero and latter vector 1

Masonic-Mesonic Continuum : as there are so many Mesonic particles I again go to the group to relate towards the Sporadic numbers in the Bridge,,, the masonic ideal one might extrapolate of the first term a relation to course work in bricking where division on center and off center e.g two

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halves as a whole or two wholes centered both viewed from center corresponds to the Meson evaluation through Ykwa form in which any differential included in that course work might be placed in the mirror of the dual as one sided or gang grouped or actually symmetrical thus termed pseudovector in the first instance and pseudo scalar in latter... also corresponds to a Pascal Pyramid proposed to Pascal Matrix...

Ontology of the Process and the Arts of Wrapping Numbers:

This drawing is a study continuing the bridging between Pi as embedded in the golden section and those harmonics embedded in the Sporadics here selecting

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the Planck as a a kind of reverse engineering of studying particle space in relation to a series composing the structure of the mesons' quarks energies as responsive to the Weinberg angle. In particular then I observe the golden section = the reciprocal of the square root of ten plus the reciprocal of the square root of 11 as .618 or the golden section module and then that the Weinber angle times 7 is 1.618 relating to the ten and 11 reciprocal roots as 1.618 proper of which .618 is reciprocal thus the tension between modular and unitary symmetry as an ontology of the process.. I also compare the wrap around aspect of the Planck which is in terms of the golden section as I

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will show, in relation then to the wrap around aspect of Euler's number...

I also demonstrate some observation based on the pun between mason and meson through an interesting accidental optical illusion I noticed where a pattern of dots in triangular formation of squares on glass through which a herringbone pattern of bricks is viewed with depth cues both road like and frame blocked then seem to project the dot space in a curved space motif or parameter.

The Planck as 6.62607015 shows .015 if one brings these to a horizon decimal and adds the six then .0156 which in reciprocal is the perfect square 64 then also 64 times .0156 = unity and a golden section Hermitian grid as I use is subdivided to all elements

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of embedded log spirals to a .0156 description as the “harmonic Planck” as it were… and of course .626 is approximately .618 to begin with… ..0156 times seven will give .1056 which is the gap between the square root of five parent of golden section twice applied in a square space…And 1.056 is the value of of the reciprocal of pi divided by the reciprocal of C speed of light…

the Planck simplified to .1509 if multiplied by seven then gives that 1.056…

In this particular bridge I have chosen of the Sporadic number representation the Monster itself and its value as 808,017,424,512,875,886,459,904,961,710,

757,605,754,368,000,000,000 simplified to .808017 is close to 809 or the half ratio of

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1.618, or the .808 value squared is .65 approximately of unity plus the reciprocal of 1.854 as three times .618 the golden section module…taking .606 which is the value of unity plus .65 in reciprocal plus .707 as square root of two and .808 added the return is 1.236 reciprocal of .809 which doubled is 1.618 the golden sections… one of natures and mathematics favorite numbers is .927 which doubled is that 1.854 term and this we can find in Euler's number wraparound e.g. 2.718281828459 that the nine brought to 27 is .927… the number also poses the mirror image of of 2.718 and .8172 where .8172 as in reciprocal 1.2236 if doubled is 2.4472 or the square root of six while the complement of .8172 as .1828 show in the

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number along with the pairing of .81 and .18 where .81 is the ordinal tract 1.234567_9 familiar to some 700 algebras...

I have selected four mesons, one of which is the Kaon which is sensitive to multiple forces and thus is responsive to distributing the multi-Force distribution of the Pion in field interactions. Thus here the framing of the bridge so far described...

As we go along increasingly we will

Especially note Chalabi Yau EP link to irrational extension of sea quark vacua levels formative in the structure of electromagnetic aura to Color confinement wherein the bridges to higher dimensions

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simultaneously are thus manifold structure on pseudo fields with implication then on the quantum pre and post defined on potentials elicited of category analytic.

... I notice that between a s Minkowski space normalization and the string theory compactification there would seem to therein constructed a kind of sinusoidal wave connection between the theories... the idea of a higher dimensional wave cut off is reminiscent of Parmenides on the Theory of That Which is , ie nonbeing not existing yet does by logical connection relates to the Minkowski limit of time glass as that which is not likewise reached infinity as an emergent definition...

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Then the hypothesis towards approaching Chalabi Yau is towards fields numerical and physical orientable to higher dimensions where the radius mode of compactified dimensions relative the Minkowski normalization co-define via a sinusoidal and complex relation...

Thus also ...In other words, the nonagon representing three dimensionality placed center may elaborate planar bending all the way to the unit ball and the values then of scalar and vector forms as aabaa or abba structure forth vector versus scalar in that abstraction where the meaning of duals then presents a scalar space which may be perturbed to vector normalizations... such as Reimann sheets to meromorphic advent... The tangential

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element introduced in the diagram must represent the Kahler intuition of relating to four dimensions as on the one hand congruent to normalization and on the other introducing thereby a framing device of the fifth dimension to represent a field equivalence to dimension and the Kalabi Yau mode then is finding the relation between the spherical unit ball and the orthogonal normalization as being together a sine wave such as also inhabits the relation of the complex plane projection... and wrapping this process around the variety of higher dimensions as though relating exceptional points in a manifold thus arriving also to a congruence with quantum thinking

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relative string theory compactification to some degree...

- **In the enclosed drawing I have**

- **reviewed the previous drawing per those specific particles and the Planck and found there the manifold exceptional point I am looking for with .927 the scalar term of reduction met across other dimensions simultaneously... and have also then invested into the analytic of relating the goldens section to particles and physics constants with pi embedded in the section relating then to the sporadic groups of primes with harmonic of golden section embedded as the sought for bridge between traditionally termed Monstrous Moonshine... have then for this drawing added terms per Sporadics , Constants and**

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herein also then additional Meson structures as these relate in great variety their resource of expanding the expected spectrum. Included also is the consideration of C speed of light as constant from the standpoint of a relation to pi.. namely the reciprocal of C divided by the reciprocal of pi is 1.056 or ten times the interval between the square root of five twice applied in a square field...

Drawing on .927 GUTS: we know that pseudo particles draw between color and electromagnetic fields like a breath, that originally all fields were joined is the Grand Unified Theory relative similar coupling at very high energies... thus my choice of .927 as a shared term golden section term cropping up often in physics which I treat

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as an exceptional point referential Calabai Yao like dimensional analytic bridging dimensions with then the underlying impetus the objective narrative of similarly describing the embedding of Pi with the golden section harmonic gamma toward links between the irrational and finite via bridge of harmonics pi embedded in that unification also embedded in the finite but vast monster pi structured finite sporadic system. The great paradigm being the relation Gell Mann to Kaluza Klein theory and off ramps in quaternion and octonion Hamiltonian reference and attendant sensitivities to construction from pseudo valence and pseudo scalar sympathy to gain and loss motivations.

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Is there, then in say category theory any interest in observing a relation between the kernel like information continuity of faithfull representation order standing in relation to the preservation of a root analytic in the zero which might for example consider potentials in the sheets of Reimann analytic and meromorphic forms that is I am asking if there has been any interest expressed in these general ideas and their combination regardless of the relentless standard paradigms and their editing of interest

In the art and language mode the interest in words which illustrate themselves such as :"Period." Have the interesting mathematical counterpart of the matrix zero which like the cheshire cat smallest

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integer coefficients not zero thus means “zero” means “not zero” in the categorical ontology…related to Parmenides and the Theory of That Which Is…

Regarding the Gell Mann matrices where the 1,-1 generators pertaining to hypercharge and i ,-i, to isospin one might further surmise the generations of squaring i and also the gamma 8 matrix in which the diagonal not that of trace but rather identity is in the sequence eof 1,1, and -2 or a neutrality stating in the structure a reference to the square root of three as the diagonal of the square root of two where the matrices as 3x3 indicate dimension so also one surmises that the square root of two times four is the square

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root of 8 and the matrices as octets find that bridge also to then the octonion… meriting review of the quaternion structure of I,j,k and 1,-1, i,-i… as the sub algebra of octonions, and in fact the octonion non associative algebra has embedded within it the associative algebras of the reals, the complex numbers and quaternions an image similar it would seem the openness of meson processes to sensitivity in some reactions to all four forces signaling a potential connection to Grand Unified Theory… Similarly then, the drawings interest in relating Pi embedded in the golden section and that harmonic embedded in the Prime locus Sporadic finite prime permutations of the Monster and in the bridge thereby of "monster

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moonshine as is the series drawing here composed then at a related tangent The process of reading the i,-I, 1,-1,k,-k, j,-j then pose within the Gell Mann matrices their transpose readings and thus the rotation about a diagonal... in this sense then the diagonal itself may be reviewed to all of it's potentials (or at least many)...

There is the diagonal structure of the log, and also of the identity and trace matrix elements, there is the diagonal of the symmetric matrix, in my own approach I relate the diagonal of mathematical jets to those of physics jets by placing the idea of bundle diagonals in a splintering over corners creating proportions that are independent functions...there are the diagonal's of basis vectors and those of

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roots, conic diagonals as well, not to mention meromorphic poles, triangular matrices as well, and rotational vectors of diagonal definitions and branch cuts of Riemann sheets...even the tilt of physical fields...and the general idea of a tangent as well as H form in Trigonometry, and of course the Hamiltonian rotation along with inclinations of the course of the unit sphere... and an origin overall in diagonal connectives within the Greek Gnomon along with the more exotic realms of the mobius permutations of exotic spheres and Dirac combs to Fourier analytic and also the relation sinusoidal waves built on the angular reverberations in complex space between the plane diagonal and sphere

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vector radius. These taken together seem well on their way to category theory!

And so, to recap: the drawing consider an embedding process linking pi embedded golden section and harmonic embedded finite prime sporadics in a sought for bridge (Monstrous Moonshine) relative to chanelling the incredibly clear intuition of the Gell Mann matrices relating the embedding of quaternions, reals and complex numbers within the octonion as defining the physics of quantum color charge relations. (because for one thing the Octonion is non associative while its embedded fields are not) This then open to tangential relating of the structuring of color charge and EM embeddings via pseudo particles, pseudo vectors, pseudo

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scalars, and as well the EP forms and in their manifold relation to a sinusoidal wave connections between unit sphere of compactification radii and normalization orthogonality the Kalubai Yau String theory from Kaluzai Klein origins... The drawing wants to know how the bridge supports yet another bridge, not an off ramp but rather a Rosetta bridge so to speak of the form of the question which asks: what is the nature of a connection between the kernel like information continuity of faithful representation in relation then to the preservation of a root analytic in the zeros open to big and little o operators in the off diagonal Gelman...

We begin with jets which thicken the form of the J and k diagonals similar then in

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these independent variables to the self interaction of gluons...in their jet forms which may be lab produced but which also imagination provides as the product of primal black holes of atomic size interacting with atoms which would in both cases produce the gluon jets and their relation exists to mathematical jets.. thus the drawing turns at this point to considering : could a somewhat exotic affine plane be introjected of a Wilson loop by taking radii of a unit circle and projecting them down over the Wilson subset generator of tangents and marking the radii as angles of rectangles visualized as triangles and thus similar to some mathematical jet like projections where

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then this constitute a kind of flattening out of the host space time space?

S:...Delay the Paradigm, Break the Mold, Show Reflection and Mirroring Drawing the Glass That: in Bridges Built and Built Embedded . :Then

Sinusoidal , Thread Space-Time New Degrees.

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By this I take here the occasion to remark over Duchamps interruption of Caroll that now , in review; the former's programs seems over time to lap Langlands which I approach through three unique vectors of my own device in the spins of all semblance that as constituted there is first the condition I present of relating pi and the golden section through physics particles and constants relative the permutations of prime numbers as finite order... then considering loss and gain, pseudo vectors and pseudo scalars there is the idea devised as I place also to the drawing again a new condition now remarking on a sinusoidal relation between the kernel like maintaining of root information to zeros and

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meromorphic form the simulacra of information forms as they near the disappearance of the function. Thirdly I take the idea generated of the Wilson Loop paradigm as studying the parallel transport of space time axes relative each other and note this seem in retrospect of time passed recently to be in a congruence where Duchamp's dropped string now well nigh seems a subfield... with the difference that I entertain to diagonals splintered over area corners of the drawing the nature of an independent function carrying ratios which at the same time build on the relation of quaternions and octonions and ideas of reflection and mirroring essential to the over arching Langlands Program here seen sympathetic to string

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theory…and compactification modes modelled to a sinusoidal relation with normalization modes in the general preview of complex space… that these embeddings make their mark…(Lissajous..)…Archimedes…(Exotic Sphere…):we can agree with Bob and Alice that because the space changes so does the information…with consequences to imagine… we have seen the parallel transports of world lines in space time as glued together and a rebus of "gluons" Histories deep in Gellman and Pauli… where color charge and Electromagnetic breath of interchange towards the pseudo particle profile invite Grand Unified Theory…?

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Mirroring and Reflection : the drawing studies the general affect over the quaternions that whereas k (left to right diagonal)mirrors in a clock wise momentum J (the reverse) is a reflection formed downward and the clockwise rotation shows diagonals meeting the orthogonality of quadrants by radius degrees... this then the reverse of the Pidic mode... and in a sense analogical to the unit sphere and thus compression and string theoretic.

Discursis:

Mirroring is a formed projection, essentially a measure of expectation... the idea that the mirror is object and reflection process is not really a very good definition... rather mirroring is the

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measure as discrete whereas the reflection is a generalization over possibilities is pre measure so to speak... thus the idea of a matrix transpose defined as a reflection over the diagonal drives home this bettered sensibility with a grounding in the structure of the Greek Gnomon as ancestor of Gell-Mann just as mirroring complements of DE Morgan are antecedent Pauli...

Granted complex form as linking the unit sphere per half plane relative a Minkowski like norm on the opposite and driven by sinusoidal connection reaching Calabai Yau then the Pidic versus Octonion directions seem as mentioned Lissajous curve motif... and then complexly linked it follows that:

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The drawing finds that the bundle shape of vector in form of independent functions gives a window on the disappearance of the functions relative the maintenance of the kernel as hypothesized. One could say the form then is like a black hole to a white hole where the white hole side is diversely counter magnetized up on the reentry, as variety over the inverse condition of the Penrose effect on blackhole at ergo sphere of polarized effect on split atom pairs as one ejected... therefore instead of an ergo sphere, on the white hole side there is a kind of instanton dual in hyper states... an instanton paradise as it were...

Discursis 2

Bridge of fuzzy numbers to Instantons in the matrix opera... (instantons being

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tunnelling devices to begin with in mathematics of physics), while fuzzy number similarly open to multiple axes of determination...

With regard to the Nobel direction ie Macroscopic Quantum Mechanics Tunneling via Josephson connections I wonder if then fuzzy numbers and instantons may be thought of as tunneling probability where probability is identified as a tool over phenomenal perception... it follows that Dirac combs may be compared as analogic to instantons as precise measure while fuzzy numbers show the probabilities emerging in changing spaces as they link coordinate possibilities to momentum... thus , as well it would seem that mapping fuzzy numbers to instantons

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meets an additional requirement of recognizing that expected interruption in chiral symmetry will give phase determinants to instanton relation to Dirac Combs thus strengthening the fuzzy number bond...

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/: .927 Revisited: Some characteristics of the Given Ratios through the Jets orienting Exceptional Points w. shared loci .927 over Categorical Manifolds

Direct Notes over the Dirac Seas:

(1) The Strange Meson at 1869.65 observes .65 in the decimal which in reciprocal is 1.5393 where .5393 is the reciprocal of 1.854 therefore three

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times the golden section module .618...1869.65 to negative 2 is 6.578 where .578 is the reciprocal of the square root of three, and 6.578 in reciprocal is .15202 which to neg. 2 power is .388 or reciprocal of 2.578 ... it is also true that .15202 times 6 is .912 and this to neg 4 is .691 in reciprocal 1.4472 or unity plus the square root of five reciprocal and the complement .309 half ratio of .618 is times three .927...

(2) Euler's number 2.718281828459 shows reverse images ie 2.718 and .8172 but also a wrap around where 9 joining origin as .927...

(3) The Kaon which is instrumental towards sensitivity in the meson

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structure toward all four forces increasing the quark potential is .089 to metric and to neg 6 power is .927

(4) C=speed of light in reciprocal form is .2997 and to neg 5 power is .927

(5) The Planck in reciprocal is .1509 to metric and to neg 3 is .309 the half ratio of .618 the golden section module and .309 times three is .927

(6) A bracket summing to 3,03 is composed by adding .909,.808,.707,.606 where .909 is the reciprocal of 1.1 which is the “magic number” of thin material physics and composes of the square root of seven plus square root of eight reciprocal plus reciprocal of Euler’s number;.808 is the ratio expression of the prime

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number permutation index known as “The Monster”.707 is square root of two in reciprocal and .606 is reciprocal form of 1.65 and its complement times two is the square root of the golden section... then the sum 3.03 to the negative fifth power is .927

Parenthetical Observations

.3679 or reciprocal of Euler’s plus .2997 the speed of light is .6676 or in reciprocal 1.49 where .149 is the ratio to metric of gravity and times three is .4472 the reciprocal of the square root of five parent of golden section...

.2997 divided by reciprocal of pi is 1.056 or ten times the difference between the square root of five twice applied a square and this is seven times .0156 approx

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which structures the Planck and also evenly distributes over a golden section grid to unity where .0156=64 or perfect square 8 matrix...

The Kaon at .1509 to metric has complement .8491 and this to neg 3 is .518 where .518 in reciprocal = 1.927 = .65+.64+.6336 these respectively as each in reciprocal :unity plus three times the golden section module per .65, unity plus .56 per .64 where then .56 is approx. square root of reciprocal of pi and =1.7854 where .7854 is complement of reciprocal of Feigenbaum and times 4 is pi....1509to neg 4 is .788 which is square root of .618...

An index can be created of the numbers .46,.854,.65,.288,.2828, .788

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.388,.528... where the kaon value .0026736 to the negative four is .46 and this in reciprocal 2.173 then to negative four is 1.101 where .101 is pi squared, this times seven the square root of two or times six is .606 = 1.65 or unity plus the reciprocal of three times the golden section module. /: .65 is derived from the value of the proton as.0010657 to metric mass and to negative five =.65 while the strange meson as 0005348 to metric per mass can be naively normed as 3.5348 in reciprocal .2829 and this to the negative fourth power is .854 which in reciprocal is 1.1708 and .1708 is the third value of .618 marked on the .4472 spiral where .4472 is square

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root of five parent of golden section... and .1708 times ten is 1.708 or square root of three.../: .288 is derived from the strange meson value metric mass as 1869.65 which divided by .65 is .288 and this doubled is the reciprocal of the square root of three.. //: the Strange Mesons value of .1869.65 = in reciprocal .2829 and this times six is 1.691 approx. where .691 = 1.4472 or unity plus the reciprocal of the square root of five... and the complement of .691 as .309 times three is .927.../: .788 is derived from the value of the Planck in reciprocal .1509 and this to the negative 4 is .788 which is the square root of the golden section...while .1509 to the negative three is .388 and

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.388=2.578 then .578= reciprocal of square root of three.../;c =speed of light in reciprocal .2997 and this times .927 is .2778 and this to the second power is .927.. /: the Kaon value to mass as 493.697 =1.472 and this times four is 5.88 thus .588 times ten and .588 = 1.7003 where .7003 is the complement of the reciprocal of the speed of light c as .2997/: these summed then = .2268 and this to the negative 3 is .691 = unity plus reciprocal of square root of five and its complement .309 is half ratio of golden section module .618 and times three is .927.

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Summary:

The drawing has taken the course of relating pi as embedded in the golden section relating to the harmonic embedded in the finite Sporadic Monster number as a proposed Monster Moonshine Bridge as long sought...

The drawing proposes Instantons and fuzzy numbers relate like Dirac Combs and Fourier analysis where the precise rhythms of the Dirac meet limits in the fields of expected vacua shifts wherein fuzzy numbers become operative and this in a sense is like the relation of black holes to white holes where one may hypothesize

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the black hole ergo sphere has its reverse as a kind of Instanton Paradise over higher dimensions.

The drawing extends the perception that a sinusoidal wave between the unit sphere and Minkowski normalization considered over the complex plane as the realization toward Calabi Yao analytic has also an implication that the kernel like structure of faithful representation of the function has a complement in the zeros of a matrix where these are the meromorphic behaviors towards the roots of the zeros.

The drawing considers inter-related behaviors of log spiral, meromorphic Riemann sheets, exotic spheres, Archimedes spirals and Lissajous curves...

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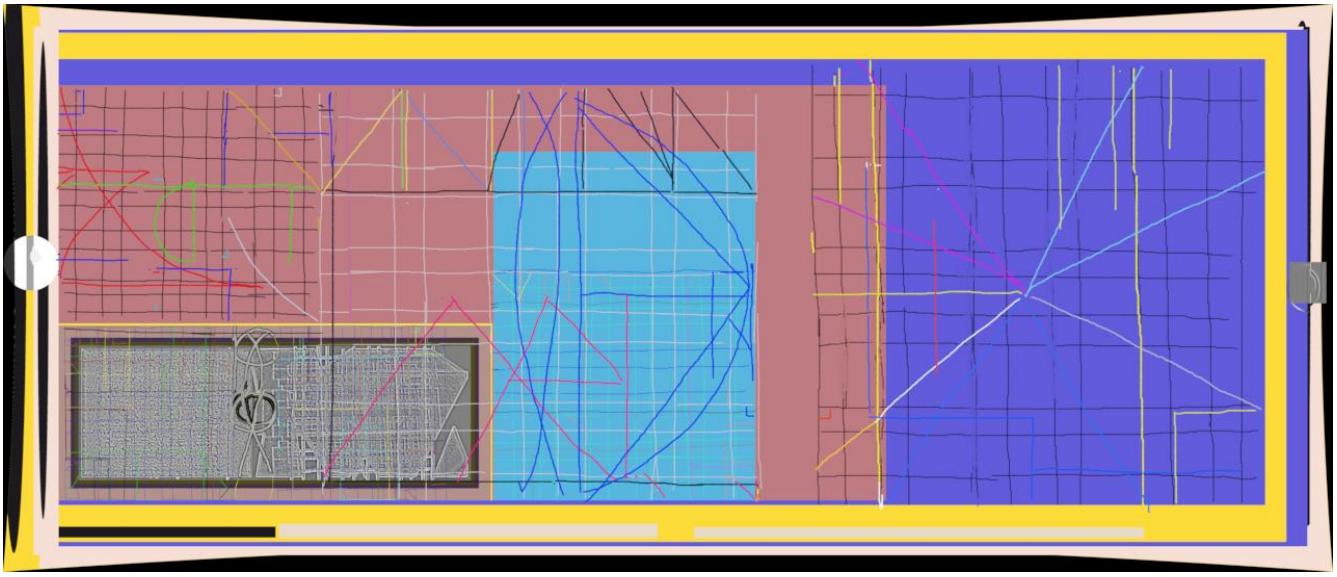
The drawing establishes an interest in relating tangents on a unit sphere to the world line tangents of Wilson loops projected to jet like basis vectors...



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Monstrous Moonshine 15/26

Butterfly Bridge & Wraparound to Zero Nexus,

: Just as gluons cannot be viewed in isolation but are always bonded , the numbers 1 and it's reciprocal, and also the number i and it's own reciprocal of -i , can only be inferred, they lack the visibility of evident difference because of their unitary momentum space. Because of this they could be termed "pre-measure"... Robert Smithsons "enantiomorphic mirror' to some degree illustrates this idea... and in so doing they mirror the Hamiltonian but if the rotation is in terms of diamond shape per unity as square then this constitutes a kind of frame dragging implicating relativistic space and where a

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relation to pi expressed over planar and unit sphere “tau” structure to a sinusoidal wave which is the sub algebra of string Calabi Yau and it’s structures to dimensions over exceptional points as the embedding of scalar and vector functions to a compactification.

To backtrack through these esoteric points then it is at the idea of measure that we can use the Greek “gnomon” as our gnome from its architects -square L shape and name meaning “that by which things are known, (alternately architects square or sundial, thus a pre relation to planar momentum and rotational degrees which we have seen generate sine waves in complex space and in Calabi Yau string theory...we have seen shown in the

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preliminary contrast as well between planar rotation and the diamond spin antecedents of “isospin” and “hyper charge”... The Gnomon gives a simplified view of all this:... to begin with it essentially shows multiplication and division as reciprocal functions... How so? Beginning with a square an orthogonal as rectangular shape subtracted allow the square to birth a rectangle... if the subtraction is from top or bottom then tuples as multiplication will locate the lateral edges as formative relative the center where even number of multiples will have a meeting edge otherwise a space or gap... and this shows the embedding function of tuples according to their ‘accordion’ as it were...(or dual

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accordions with a gap so it seems: essentially formed centrally to t paradigm)... The reciprocal nature of division then is seen where the shapes are stacks from top and bottom. In the gnomon diagram where a square in the corner of a square is formed and allowed to transverse in both orthogonal directions an opposite matching square in the extension show as the shared "mass" value of this smaller square which has been formed now twice. Then rectangles formed in each square but on opposite axes will signify in that difference the difference between division and multiplication as co-informing and reciprocal functions...

This idea then extends to category theory and the idea of covariant and contravariant

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hom functors over group spaces. Such functors group changes in the function in relation to the products in ordered pairs...and so this is a set representation.. over this we can also add the degrees of group representation as sub algebras where according to commutivity the reals birth the complex and they the quaternion are rotation Hamiltonians but all of these embedded in the non-commutative Octonion where then this sudden generation of potential is the point of comparison in physics to the like amplitude then via meson kaons and the strange force as together finding a sensitivity to all four physics forces with corresponding increase in generating potential that is-generating a vector from

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scalar space… mathematically mirrored by Calabi Yao string theory…and it's powerful use of exceptional point devolved from the saddleback points initially marked of instantons as their tunneling potential… and this tunneling potential between fuzzy numbers and instantons has telling results… specifically in channeling a structure between the kernel like nature of faithful representation which preserves isomorphic function topologically relative then the contrasting disappearance of the function where matrix zeros symbolize then not zero but vacua, that is the populating energy at meromorphic levels of the root zeros which we may relate actually to the squares as masses we distinguished on the gnomon.

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In these circumstances the drawing considers the implications of a triangular matrix over the idea of summation where one might propose interrupting division and multiplication as in a sense loss gain but also in a sense ripples in space time...The triangle centers and devolves a sense of quadrants as they evolve from Pauli to Gell-Mann matrixes field to space in sensibility... The drawing originates in relating the Monstrous Moonshine Bridge through it's construction of golden sections harmonics in physics particles and constants as embedding pi and this harmonic embedded in the sporadics... one notes tangentially that long numbers such as the sporadics show the disappearance

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of the function of multiplication in the continuance of the term as it approaches tighter and tighter definition of the sum... In the spirit of Trans universal Teichmann theory the drawing also selects various golden section rings as part of the overall neighborhood of local extensions and projections over mirrors, duals and exceptional points to dimension elicited of compactification regimes as well...

The drawing has begun it's course by relating sight to sound: since a violinist in an orchestra for example must take into account the concert hall itself as a soundbox or projection space and this has a mathematical resonance on several levels... the drawing then codes , as a drawing, that the idea set forth then is

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coat the corners of the hall at intersection of planes with different materials which damp sound in different way and find the surface as painted colors with possibly also the paint as offering exotic damping. The possibilities which ensue are to create acousto-optic interactions through phoxonic crystals where the energy gap of the Brillouin zone finds a quasi particle carrier such as the anion to interact with alternately phonons or mass oscillators, polarons which we have seen interact with anions to relate to unusual molecules by creating a vibration pattern extending into the sea quark realm via vortices and this motion acting as a virtual particle which may extend and project or be localized to Fibonacci anions...or , thirdly, magnons

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and a sensitivity to electromagnetic wave vibration… presumably the sound of the violinist and/or orchestra could effect then a kind of light display if for example the violin spectrum of sound became a kind of exceptional point with the damping system and the result projected a color response… The drawing uses an ordering system of a triangular matrix mode in a step pyramid formation to whole numbers with fractions where the fraction can like masonry be offset to scatter or line up…

Butterfly Up Along the Way…or Hofstader Butterfly Retrospective:

Some butterflies have wings coated with photonic crystals such as hybrid with phonons become phoxonic, and the photonic regime relates to refractive index

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which becomes incorporated into animal coloration...essentially using a periodic index selection as in famously the octopus as well... There are also several mathematical butterflies which also engage the structure of the energy gap: There is the Hofstadter butterfly (author of Goedel, Escher, Bach who emphasizes recursive structures and gave a prescient preview of AI potentials) in which forbidden zones create interference patterns over information then structuring as fractal formation, There is also the Dirac Butterfly which is a variation of this related to Dirac Cone energy level proceeding from the curved path created by periodic levels bending conduction and valence energies ie primary and secondary to a

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meeting of the curved path and the Dirac cones which processed then enter a like pattern... As well also there is the Catastrophe butterfly in which bifurcation theory also distinguishes a similar shape effect where altering parameters become hyper active and there is the Wallace butterfly wherein chords to a circle have a refraction occurrence in then that butterfly shape.. The drawing takes interest in relating these energies to a Lissajous curve at certain amplitudes of energy gap become spiral and the various spiral forms, log, Archimedes as forms of recursive information. Note the paradigm of the phonon, essentially sound draws on sight! (because the higher frequence momentum space flattens to visualization while the

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more cloud like residual then so draws in our model:

The drawing then requires of itself the speculation that: This cloud like comport over Chalabi Yao manifolds from exceptional points shared over higher dimensions in a sinusoidal wave structure must be in a sense the reciprocal case of electromagnetic energies replacing momentum loss with virtual particles vortices vibration mode as pseudo particles... The drawing essentially creates a butterfly representing the folding over of the original band gap dimension over the fractal like events and because the physics of this relates phonons or vibration structures (characteristic or analogous in this respect to the nature of pseudo

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particle vortices}...and photons both force carrying bosons but in the event the photons flatten in their spatial orbit and become as it were drawn over by sound in a combined form or event as "phoxon"...This being the idea of the original light show planned for an orchestral hall from the sound parameters of a given instrument over the damped corners of the hall facilitating the transform...of the acousto -optic interaction...

The drawing is structured along the lines of relating 1.1 the magic angle, .231 the physics Weinberg angle or "weak Theta", Mathieu 12 of the Sporadic Group of prime number finite permutations, The Fine Constant, The Gravitational Constant and

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a bracket of numbers, .909, .808,.707,and .606 relating thereby the reciprocals respectively of 1.1, the Monster Group which incorporates much of the Sporadic Group the square root of two and also 1.65 or unity plus the reciprocal of unity plus three times the module of the golden section... Along with these is a group of harmonic neighborhoods... specifically I will here describe then as composed of .4224 the complement of the square root of three which to negative 2 is .65 or reciprocal of unity plus three times the golden section module .618, .466 the tenth part of 4.66 the Feinberg constant and this to the third power is .101 or the reciprocal of pi squared which composes then as multiples the previously mentioned

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bracket of .909,.808,.707 and .606, .../.2764 which in reciprocal is 3.618 which in turn is in reciprocal .2764 where then 2.764 is unity plus .764 which in reciprocal is unity plus one half the golden section module .618, and 3.616 of course three times unity plus the golden section module...this relates to the Weinberg angle .231 which times seven is 1.618, while another tenfold, 1.618 as the golden section is composed of the reciprocal of the square root of ten plus the reciprocal of the square root of 11...//236 is the third turn of the golden section spiral starting from .618 or fourth if starting from 1.618 and this time three is .708 one of two possible terms for the square root of two which as odd and even per .708 vs. .707

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give a nexus for complex analytic...returning to the bracket .909,.808,.707,.606 the sum of o3.03 to the negative 5 is .927 or the half ratio of 1.854 which is three times the golden section module...

Returning to Mathieu 12 of the Sporadic Group at a value of 2 to the sixth times three to the third times 11 or 1 times ten to the fifth as .95040 or in reciprocal 0000.1056 or naively normed as 4.1056 where .1056 is the gap between the square root of five twice applied in a square 4.1056 in reciprocal as .2435 is times four 3.56 or three times unity plus .56 which squared is approximately pi and in reciprocal .56 is 1.7854 where .7854 is the complement of .2146 complement the

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tenth part of the Feigenbaum and .7854 times four is pi…//: the Weinberg angle we have mentioned as times seven the golden section, the Fine structure Constant is in reciprocal .13704 and to neg 4 is .78 where .78 times two is is 1.56 or unity plus the values for .56 as previously described relating to pi, and the decimal value to pi…the gravitational constant as .149 to it's metric is times three .4472 the reciprocal of the square root of five… thus the analysis I make of the golden section content and embedding of pi as related to the physical particles and constants and carrying over as a bridge where the harmonics are also embedded in the Sporadic numbers then constitutes the long sought Monstrous Moonshine Bridge ,

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and related to a theme of damping a concert halls corners in such a way as to relate optico-acoustic potentials from physics where phonons and photons via phoxons create an experience of sound drawing on sight through the compression of dimensions in the structure of thin material physics via the 1.1 magic angle facilitating the valence and band gap modes of the Dirac cone towards structuring recursive content of which the Dirac butterfly relates to "Hofstadter Butterfly" and its relation to moiré structures as recursive via author of Goedel Escher Bach an Infinite Golden Braid... and in the drawing I seem to compose my own butterfly motif : the 1.1 magic angle has an interesting aside in

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that is the reciprocal of the root of 8 plus the reciprocal of the square root of seven plus the reciprocal of Euler's number and as the square root of two times four is the square root of eight seems to show a planting of quadrant formation on the diagonal...

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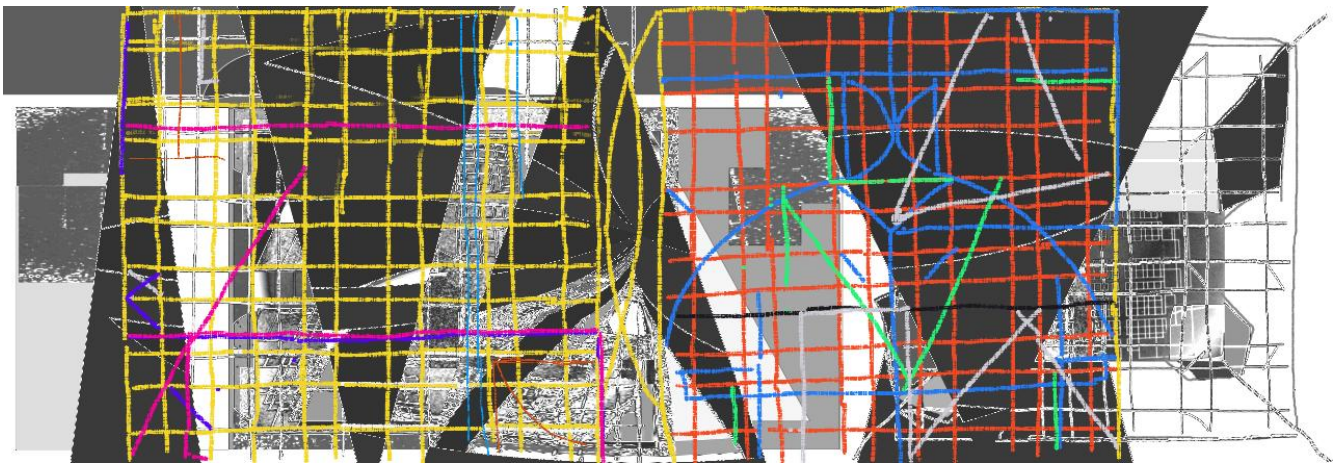

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Milky Way Disc as Found Butterfly for Monstrous Moonshine Bridge 16/26

(and a painter's note from Chardin)

Mathematical Butterfly forms are shape engendered by a forbidden zone(and here before going into Chardin we can mention the appropriateness of "cosmic censorship" in black holes which I associate with Duchamp as I hazard may well be source of Penrose) and in BH .mathematics possibly informed by the roto-reliefs leads to what might be spaghettification into the counter arcs forms of energies meeting a limit by which an order of scale or domain wall effects the approach to a singularity which the has a refractive action, in the

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case say of Hofstadter's butter fly this is a moire pattern of recursive values towards fractal form... the square root of two finds spirals in quadrants as a kind of butterfly, the Wallace Butterfly finds reflective chords in a circle, a Lissajous curve has butterfly potentials, and Dirac cone is as though a square field has arced sides all around from which an x through the center drops out the center and this remove creates a cone in which are the conduction and valence bands energy spectra of highest and next highest order of which a mismatch of proportion across a gap between them instigates this process which can channel either superconductivity of insulation : this then brings me to the next butterfly in my

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collection which is the Milky Way Galaxy and this is actually not static but flaps borders alternately very much like a manta ray... thus this butterfly reminds me of Chardin's painting of a "Skate: (as also skate being a Sanskrit informed word meaning flux motion) in which a cat observes a skate or Manta Ray in tableau with arched back... thus the rays sting seems the dropping out dimension of something like a Dirac cone and the cats body disappearing into an arch marks it as a relative of the Cheshire...

The drawing is structured to review the number .927 or half ratio of 1.854 as then three times the golden section module .618 and particularly ubiquitous within golden section flux fields : by considering that

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number to begin with as cyclically occurring within powers of the Planck. This cyclical nature of the number which particularly invites "exceptional points' or a loss and gain meeting in congruence of scalar and vector, is then compared with a striking dual structure between two ten folds, one being ten times .1056 which is the gap between the reciprocal of the square root of five twice applied within unity...this number, 1.056 for example is the product of the reciprocal of pi divided by the reciprocal of c speed of light...(these may then get an)introduction via the Pauli matrices 1,0/0,1 reading zero as zero (strictly speaking in matrix form only meaning limit of the basis vector) but to this effect from a decimal

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the terms may add.0056 to produce .1056 and .0156 where .0156 if reciprocal of 64 perfect 8x8 martrix and .0156 functions in a golden sectiron unitary grid to cover the surface as a quantum and the number is in fact central to the Plank itself where one can see 6.62607015 links .015 at end of term to a wrap around at beginning thus .0156 and .62 is approx.. .618... the other tenfold being a series of numbers in the flux field of the golden section which compose successively as an ordinal list of manifolds 1-10 these being specifically listed along with the 1.056 as follows, but first noting that as the drawing itself is premised on relating pi embedded in the goldens section and that harmonic also within the finite sporadic numbers

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permutations of selected primes we return with interest to 64 scaled as .64 in degree then reading in reciprocal 1.56 of which we see the hundredth par of .56 in .1056 and .0156 and .56 is squared approximately pi while in reciprocal 1.7854 find .7854 times four =pi and the complement .2146 is the reciprocal of the Feigenbaum...

The listing of .1056 scaled in manifold then finds 2x.1056= .2112 half ratio of the square root of three and also complement of .788 which is the square root of .618 the golden section module...

3x.1056 is .3168 and reciprocal of Pi

4x.1056 is .4224 complement of square root of three and .4224 to the negative 2 =.65 =1.5393 where .5393 is reciprocal of

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1.854 = three times .618 the golden section module...

.1056 x5=.528 and this times two is 1.056 the number of the tenfold of .1056 and also reciprocal of pi divided by reciprocal of c speed of light...

.1056 x 6 = .6336 or unity plus the square root of three while also equaling twice the reciprocal of pi where that last is three times .1056... .6336 times two is 1.267 reciprocal of .788 which is the square root of .618 thus twelve times .1056 or four times the reciprocal of pi...

.1056x7=.7392 to negative three is .927

.1056x8=.8448 or twice .4224 complement of .578 square root of three in reciprocal and .4224 squared is .65 or unity plus .5393

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reciprocal of 1.854 three times golden section module .618...

.1056 times nine is .9504 .3168 reciprocal of pi times three...

This manifold just described ,then maps to golden section flux field manifolds as follows

Given .2112 or two times .1056 I map .708 because this version of square root of two is three time the golden section module and the square root of two multiplies the mass at a square section of any basis vector into the mirroring sides of that diagonal...

@ .3168 or three times .1056 I map 1.854 or three times the golden section module .618...

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@ .4224 or four times .1056 I map .788 the square root of .618 and as 1.267 in reciprocal is four times the reciprocal of pi as itself three times .1056...

@ .528 or five times .1056 I map 2.236 the square root of five which is five times it's own reciprocal...

!@.6336 or six times .1056 I map also .6336 as the half ratio of the square root of the golden section module .618... thus at this point an Exceptional Point

@.7392 or seven times .1056 I map .127 or the Weinberg angle which times seven is 1.618 = golden section proper...The Weinberg angle .231 to neg 3 is .691 or 1.4472= unity plus reciprocal of square root of five..this has complement .309 which times three is .927...

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@.8448 or 8 times .1056 I map to .1828 which is complement of .8172 and this in reciprocal 1.2236 or unity plus half ratio of .4472 the complement of the square root of five.. and 1.2236 times two is 2.4472 in reciprocal .4086 square root of 8 which is square root of two doubled. .1818 and

.8172 are familiar from Euler's number 2,718281828459 and .1828 times 8 is 1.46 or .146 times ten where .146 is fourth turn of golden section spiral from .618...

@ .9504 or nine times .1056 I map to .81 which is 9x9 perfect square matrix at decimal and in reciprocal 1.126126... where .126 squared = .0156.....

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Although both ten folds the .1056 list are essentially a mapping of modular forms while the goldens section list inherently maps to unity... and this relates to multiplication and division as reciprocal processes (thereby initiating category theory) wherein multiplication lists tuples as embedded in a continuing modular space while division (reflects on i squared as one) initiates a unitary conception which is the life of the Lie algebras...

Parallel and Trapezoidal Butterfly Systems Resonance and Timbre

Returning to the understanding that mathematical butterflies form on forbidden zones and from manipulation of

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these as in cyclotrons or thin materials lattices phonons to photons can avail a drawing of sound on sight in the optico-acoustic regime...the particular butterfly of the Milky Way Galaxy stimulates a like review of potentials where the perturbation of a colliding galaxy which only a kind of bundle vector to limit of density penetration the creates waves which cause ripples throughout the whole system like the fluttering mode of a manta ray ... is a form I borrow into my own conception by treating a vector split over the corners of the orthogonal field and thus a kind independent function I can use over the mathematical forms I have been describing as elaborating golden section and pi embedding from the resource of the

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bridge building over the physics particle and constants relative to the Finite Primes Sporadic Group permutations...

Turning to 1.1 the magic number of graphene lattices the distortion of the twist creates an operator which over the dimension two dimensional orientation similar to Pauli matrices finds the diagonal marking a differential whose more Gellman like process then splinters the characteristic moire and fractal characteristics of automorphic and spectral attributes co-defining modular and unitary relation to the reciprocal nature of multiplication and division similar to the relation of tones and overtones within Fourier analytic as linking essentially a parallelogram twist on the

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orthogonal and this would seem in some wise to illuminate the “coincidence” one may note of 1.1 as also the reciprocal of Eulers number plus the reciprocal of the square root of seven plus the reciprocal of the square root of eight...(I note Hofstadter, author of Goedel Escher Bach and discovering the Hofstadter Butterfly as undergraduate almost had his mentorship revoked for engaging in what his professor mocked as “numerology”...)...that is, forbidden zones may be reconsidered as a domain of fuzzy numbers in which the tunneling which finds Gell Mann matrices the quintessential structure of SU(K) modes bridge physics and mathematics as in the overall project for example also of the Monstrous Moonshine bridge long

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sought and provided in my drawing series towards bridging the physics particles and in a reverse engineering the Constants in relation to the Sporadic Group of finite prime permutations… and looking at 1.1 relative Eulers then the characteristic wrap around quality of transcendental numbers seem here resonance and timbre to also the square root of 8 as twice the square root of two thus enlisting structural to transform to an advanced degree also in the function itself while the tension between 7 and 8 as formative to bridging of dimensions where algebras in general find .81 referent a nine fold as then in reciprocal 1.234567-9 to show the ordinal tract reflected in what becomes in Gell-Mann of course the “8 fold way”… My

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drawing then enlists a tenfold Dual relative the three degrees of a cycle on .927 in the Higgs which seems to set a “trap” level (e.g. position which if disturbed shows the level of measure) distributing a resonance within physics to Exceptional point as saddleback mode of a fuzzy number transference in restructuring basis vectors to higher dimensions...the essential Gellman recourse on SU(K) dimensions...

Sporadic to Germinative:

if I look at numbers such as .707,.606,.808 which have interesting arithmetic properties they seem composed of an integer module extended by the basis base ten with a self dual in addition as a wraparound ... this process could be continued to compose then .6060606 and

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6061606...for example... this then forming a basis vector in a kind of function ... with implications in structuring higher dimensional analysis linking physics and mathematics in the continuing mode of approach in the drawings ambit....707 is the square root of two but has a dual in .708 , the latter three times .236 which is the third turn of the golden section spiral from .618, whereas .606 is 1.65 where .65 is in reciprocal 1.5393 and .5393 is 1.854 in reciprocal or three times the golden section module .618, and .808 is in reciprocal the approximate value of the Monster Sporadic Finite Primes Series. They sum to approx. 1.472 which times two is 3.854 or the previously mentioned 1.854 plus twice unity and 3.854 in reciprocal .35

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is the complement of .65...The mode then of stretching out a central configuration of zeros then such as .7007 is of value in considering the series of numbers .0073,.073,.73,.703 and .7003 where .7003 is the complement of .2997 or c the speed of light which to the fifth power is .927 or the half ration of 1.854...=three times the golden section module .618...and .0073 the opposite limit belongs to a series of suffixes characteristic of golden section derivatives namely .0091,.0082,.0073,.0064,.0055,.0046,.0037, .0028,.0019 where the summing to a ten fold seems reflective of the golden section as being the sum of the reciprocals of the square root of ten and of 11 respectively the square root of ten as

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3.1622 is in reciprocal .3168 or three times .1056 the gap between twice the square root of five in a square and equaling the reciprocal of pi... and the square root of 11 is unity times three plus the reciprocal of pi...while the square root of the golden section is 12 times .1056 or four times the reciprocal of pi...one notices that .73 minus .703 is .027 and .703 minus .7003 is .0027 where .27 times 3 is .81 which in reciprocal is 1.2345679 an ordinal tract characteristic of some 700 algebras...and seeming to show the brane value of the 8 fold way per Gell-Mann...in my drawing I use a matrix of the values just mentioned but also, returning to the mapping of tenfolds as a dual between .1056 times ten and an organic set of ordinally distributed ten

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folds found as characteristic of golden section flux the reciprocal relation of multiplication and division as relating modular to unitary form in the model of the nature of Lie algebra and which form in effect a kind of shock wave of difference become referred to then as alternately posed in the series as in then the following forms playing out the possibilities:

where .2112 as twice .1056 is compared to .708 as the square root of two (fuzzy number and golden section derivative via 3 times .236 the third turn of goldens section spiral from .618 which as even and odd numbers representing cross section of integer masses in analytic pose the two directions of complex values and then .2112 times .708 is .149 value of gravity and

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times three is .4472 or reciprocal of square root of five 2.236....whereas .2112 divided .708 is .2983 which to third power is .7393 is 1.35 where .35 is complement of .65 as three times the golden section module if considered in reciprocal form 1.854...

__> the three fold of .1056 times three is .3168 or the reciprocal of pi, which I compare as threefold to 1.854 as three times the golden section module and then .3168 times .5393 as reciprocal of 1.854 produces .1708 which times ten is 1.708 or square root of three and .1708 is third turn of golden section proceeding from the square root of five...whereas .3168 divided .5393 is .588 which is approx. 1.7003 where .7003 is the complement of .2997 or c the speed of light itself the value of three

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times .146 the fourth turn of the golden sections spiral from.618 plus then .0073…

__> the fourfold of four times .1056 as .4224 is the complement of the square root of three and half ratio .2112 is the complement of .788 the square root golden section of … which I compare to .528 as a golden section derivative which times four is 2.112 or .2112 times ten or .4224 the complement of the square root of three times 5…whereas .528 divided .4224=is 1.25which to negative 2 is 1.118 and this doubled = square root of five…

- **➔ Five fold of .1056 times five =.528 where this times four is 1.056 or .1056 times ten and also reciprocal of pi divided by reciprocal of c speed of light compares to 2.236 square root of five**

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which is 5 times it's own reciprocal....528 divided .4472 is 1.118 and doubled = square root of five while .528 times .4472 is .236 or the third turn of golden section spiral from .236....

➔ The six fold of .1056 as .6336 is unity plus the square root of three in reciprocal and is twice the reciprocal of pi, also as doubled is then .788 the square root of the golden section... and this number is thus relative the derivatives essentially a crucial exceptional point... .6336 squared is .4014 times 7 is 2.809 doubled is 5.618 and .6336 to negative 2 is .788 approx...

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➔ .1056 time seven as a manifold =.7392 in reciprocal 1.35 or unity plus he complement of .65 as reciprocal of unity plus three times the golden section module 1.854 in reciprocal .5393 e.g. 1.5393= .65 compares to the Weinberg angle .231 which times 7 is 1..618 closely and .231 in reciprocal is 4.3292 where .3292 times two is .6584 in reciprocal 1.518 and .518 as 1.927 is .6336 plus .64 plus .65 where .6336 is unity plus square root of three, .64 is 1.56 where .56 squared is approx. pi and = 1.7854 in reciprocal where .7854 times 4 is pi and is complement of the reciprocal of the Feigenbaum.....7392 times .231 is .1708= the fourth turn of golden section spiral from the square

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root of five as a dual tract... whereas .231 divided .7392 is 3.2 and this to the negative two is 1.788 where .788 is the square root of the golden section...

➔ .1056 times 8 as a manifold is .4224 or the complement of the square root of three and .4224 to the negative 2 is .65 or unity plus three times the golden section module e.g .65 = 1.5393 where .5393 = in reciprocal 1.854 = 3 times .618... which I compare to .1828 the complelment of .8172 the latter = 1.2236 or unity plus half ratio of square root of five and this doubled is square root of six, .1828 then times 8 is 1.46 or .146 the fourth turn of the golden section from.618 then times ten... the

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numbers .1828 and .8172 obviously strongly visualized in Euler's number . 2.718281825249 where .8172 reads in reverse...and also .1828 in that configuration... we see .4224 times .1828 is approx. 4.618 while .4224 divided .1828 is 2.31 or the Weinberg angle .231 times 10 where also .231 times seven is very closely 1.618...

➔ .9504 is .1056 times 9 and also three times the reciprocal of pi and this nine fold I compare to .81 the tenth part of the nine by nine matrix as 81 and .81 has value 1.2345679 as an ordinal tract characteristic of algebras in general.....9504 times .81 is .7698 and this in reciprocal is 1.2997 or unity

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plus c the speed of light...whereas .9504 divided .81 =1.173 where .173 times ten is the square root of three...

➔ **.1056 times ten is 1.056 in the modular tract of .0056,.056,.56 as 1.7854 and .7853 times four pi...1.056 being the reciprocal of pi divided by the reciprocal of c speed of light. I compare this to .2764 in reciprocal 3.618 where the reciprocal of .3618 is 2.764, and.764 = 1.309 while this doubled is 2.618 and in reciprocal the complement of .618...**

Returning to Origins:

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the drawing is premised on relating golden section values embedded to pi presenting in physics constants and particles relative the prime Sporadic Group series as in this 16/26 Moonshine Bridge selecting:
The Higgs as 124.3 and to seventh power .927 showing also at the fifth power as .7393 and this to negative 3 = .927 with also a cycle where staged to negative seven is .927 these being taken from the reciprocal of Higgs as .00798 which close to o.00788 is the hundredth part of the square root of the golden section...
Selected also is the value of electron mass 9.1093 to metric in reciprocal

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.9189 which times two is 1.8292 and this doubled 3.6584 where .6584 is 1.56 and .56 = 1.7854 where .7854 time four is pi and complement of Feigenbaum... Also selected is the Strange K* meson of value 891.66 in reciprocal .00112 naively normalized as 2.112 thus ten times .2112 the complement of .788 the square root of the golden section or five times .4224 the complement of the square root of three which squared is .65 or unity plus the reciprocal of three times the golden section module .618 thus in form 1.5393 where .5393 = 1.854 in reciprocal as divides thrice .618...

Generally Speaking: Categorical Interests...

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The note on a germinative approach over relating numbers such as .606,707, 808 finds a specific context in that .707 is square root of two and expresses the square mass of any orthogonal towards basis vectors in extension while .808 is the value of the Monster Sporadic Group of Finite Primes and .606 as 1.65 relates .65 as 1.5393 and .5393 as reciprocal of 1.854 is a golden section triad. Adding central zeros ie .6006,.7000007 etc is analogous to finding the Gell Mann matrix zeros as SU(k) mode meaning the reference to the square pattern of zeros as open empty sets of square root progressions and similarly the octonion referent of Gell Mann takes in increasing

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constraints on associativity from the Reals, to Complex to Quaternion to Octonions... similar to the differences expressed between .606,.707 and .808 respectively which in themselves might be though of as creating basis vectors toward a Calubi Yau string context either by extending zeros or relating to each other a n+1 dimensions...
My interest in a jet like splintering mode of bundles from corners is then referenced to Milky Way Butterfly in the general context of butterflies as response to forbidden zones such as the selectivity of quaternion multiplication exemplifies over categories...the number .927 as a ubiquitous Exceptional Point in the flux

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of golden section harmonics is directed towards the Planck cyclical encoding of the number as a Physics form of harmonic tones, overtones, coliotura in the mathematical regime which across the physics acousto-optic realm can for example find sound drawing on sight... The relations we have seen in .1056 tripled to = reciprocal of pi can be reverse engineered from Einsteins field equation relating 8 pi to the inverse square law and so 8pi as 2.5344 is to negative 3 1.26 and as .888 complement of.112 which is the value in reciprocal of the vacuum permittivity finds .888 as 1.126126 and .126 squared is .0156 a value embedded in the Planck and also the quantum of a harmonic

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golden section grid as well...2..5344 to the negative fourth is 1.12 or .112 times ten...2.5344 is 1.056 approx = .1056 times ten where .1056 is gap between reciprocal of square root of five twice applied in a square and in the quantum golden section .0156 value .1056 is approx. 7 times .0156...2.5344 to neg nine is 1.0073 where .0073 added twice the .146 value which is fourth turn of golden section from .618 is then .2997 or c the speed of light... and we find .3945 times two is approx. .788 the square root of the golden section and likewise .606 or unity plus .5393 as reciprocal of 1.854 as unity plus three times the golden section module has as complement to that .606 term .394

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which is then essentially the 8 pi value...

For me these considerations converge towards following emerging links in current hypotheses and speculations thus

the thought been put forth in some wise over the identity of speed to time and space towards speed of light and gravity that gravity's witness seems provoked of thermal conditions in nucleosynthesis and plasma conditions become restriction on "noise" to quanta might encounter in a kind of directed graph (Nicole Furey indicates the idea of a directed graph) which might be thought of in terms of a time crystal which duty free edits space of

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physics to find in a mathematics recognizable of domains assimilated within Gell- Mann SU(K) space devolved over real to complex to quaternions to complex quaternions to SU(K) space and alternative versions such as expanding a center zero projection in numbers such as .808 (approximates reciprocal of Monster) or .606 (as 1.65 .65 is unity plus three times golden section module 1.854 in reciprocal .5393 e.g .65 in reciprocal 1.5393 and of course .707 which paired with .708 (three times .236 the third turn of golden section spiral from module .618 have projective amplitudes within mathematics towards Calubai Yao...but with

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Bootstrap and No-Clone theory in a combinatorial state of time crystal projection wherein overtones effortlessly become tones?
These questions altogether address the organic growth of this book which begins with an art and language appreciation of the shock of cultural gravitational waves as it were introduced at the time of Pound and Joyce in realizing the nature of a common source in European languages from the organic Proto Indo European and then the artistic and artificial language of Sanskrit and so a kind of unity in the dream of language according to these authors became subscript in a way to understanding the

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relationship between poetry, rhetoric, mathematics , physics which in the ensuing age of Relativity directed a similar course toward Grand Unified Theories in the next generations along with the mathematical Langlands Group as a paradigm concentrated in mathematics... as an artist then my work is a kind of lucid dream over all the potentials between bootstrap and no-clone...

Holo - Rhebus =
Dagger † “ 0” Type…
More notes on transpose, inverse, reciprocal, norm and faithfull representation n-> K Dimensional zero

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and (“O”), little O and Big o… within Van’s Algebra…

Where:

There is the meaning to the rebus that the dagger in mathematics indicates transpose while zeros represent in matrices the limits of a given scale which can alter as proposed and generated specifically by the relation of a diagonal to a “basis vector” and thus the representation emerges to phases something like a daguerreotype…

The idea of a transpose has a history in the art and language connection I mention via Heraclitus who seemed to have a kind of sparring with Pythagoras dialectically thus Heraclitus’s phrase “for these

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transposed are those and those transposed again" would justifiably be argued his take on the "gnomon" (Greek diagrammatic form over rectangular distribution meaning that by which things are known, alternately a carpenters square form or sundial) as a form whose transpose mode in Pythagorean theorem is given over by Heraclitus also in his phrase that any point on a circle is its center exemplifying his sense of flux as "tropai" or "reversal"... that is Heraclitus transposes the idea of flux to many conditions of life and physics of the natural world...The dream of language Joyce particularly rebus elaborates in Finnegans Wake can be

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seen to be a take on several of Heraclitus' statement fragments where he considers the relation of waking and dream states, "awake in each others death, dead in each other's life" seems a kind of evocation of "lucid dreaming" (awareness one is in a sleeping state which then has inner consciousness) or a state he represents by a sober youth leading a drunken elder and his comment further that a person asleep when sight is quenched kindles a light for themselves," and returning this to consciousness he poetically evokes signal fires leaping island to island...ideas the artist Robert Smitson seems to have borrowed in his "mirror displacements"

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As this drawings previous “bridge” or series member began by studying how a damping of concert hall corners could relate sight to sound along the lines of physics in which damped photons relate to phonons in a hybrid Phoxon in which essentially sound draws on sight and so a kind of light show it is interesting here to continue the idea by considering how octonions (which evolve as a convolution over the Hamiltonian rotation in space e.g. the quaternion is limited by non associativity to relate restrictions or forbidden zones perhaps comparable to Bouillon zones or band structures of energy in which imbalances between projection bands and valence create a

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gap which can be twisted to either be insulated or hyper conductive...can we compare the quaternion alternately to "Ruperts Property"(the ability of a shape to pass through itself in its rotational aspect versus it "shadow or original state') and Rubert's Tadpole e.g. molten glass dropped in water forming a tadpole shape where the head is the strongest form of glass, while yet the tail will shatter and turn whole object to dust because of a contrast between the distribution of compressive and tensile forces. Although the geometric objects which cannot pass through their shadow are incredibly rare... it would seem the Octonion is one of them!... It is

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structured on definite composition of routes which are allowed to its multiplication and others which are “forbidden” would one say the octonion cannot pass through it's own shape because of limitations on reading the rotation... tangentially could a hologram cast a shadow if filters were used on sources of ambient and projection light...? And can we twist the two modes together like a time crystal where then the forbidden zone has access via the octonion relation in general to SU(K) space to a string theory partitioning within higher dimensions of the compressive force as it shatters into higher dimensions?

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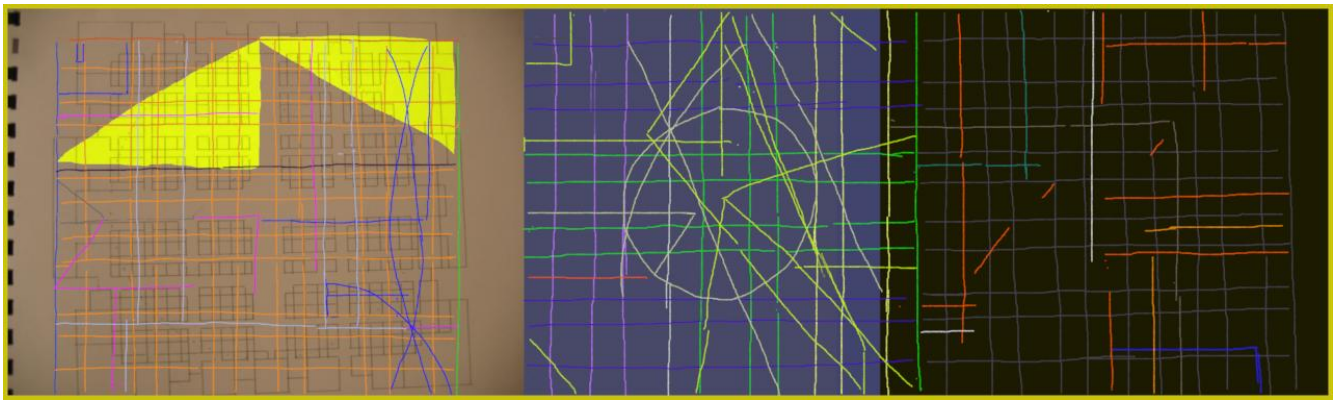

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Bridge 17/26 Monstrous Moonshine Bridge with Torsion Towers on Pi Trees would seem to be used to model probabilities of the ground they cover as a quantum like approach given and classical measure on true quantum randomness will decohere.. similarly my projects are all very classical apparently relating to linking different kinds of ordering into a unity... thus to confront true randomness is more difficult than infinity in a way for example Einstein's "God does not Play Dice" seems at first blush to forbid arbitrariness yet then again dice conform to probability and the meaning could morph to God not playing dice in the quantum realm

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precisely because that is too orderly... true randomness would seem to exist in transcendental numbers thus since I find Pi and the golden section embedded in physics it would be interesting to then see what happens if one can state their decoupling in some meaningful context...

Therefore as I go along I will experiment with mapping the value embedded between Pi and Harmonic Golden Section by mapping the golden section as a suborder of Pi based on the golden section itself the sum of the square root of ten and eleven where the first is a tenfold of the reciprocal of pi and the second is three times unity plus the reciprocal of pi thus resonant

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to 3.1416 and the twisting of pi as it were as though a thin materials lattice...along the way I notice .1417 times five is .708 or three times the third turn of the golden section from module .618 where .708 and .707 model the square root of two and thus the odd .707 directs left in the complex numbers and the even .708 then right. The numbers used to relate the structuring of a Monstrous Moonshine Bridge via embedding of golden section and pi linking that mutual embedding then composed within the finite Prime Sporadics choose this time The Sporadic Group Mathieu 24 at value 244,873040, the D* Charmed Particle at 2010.26 to it's metric as

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mass and the Baryon B^0 as 5792.4 to it's metric...

To preface by a review of the golden section Hermitian grid I devise finds the .236 term I mentioned as produced by .1056 or the gap between twice the reciprocal of the square root of five in a square and added to this on both sides is .0652 which is the fourth turn of the golden section spiral traced from .4472 the reciprocal of the square root of five(as the square root of five is mirroring of the golden section in its composition thus it's Parent form) and this is repeated also to the left and right sides of the square field leaving spaces of .146 bilaterally which is the third turn of the golden section from

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.618 and from these entries continuing a spiral on any of these forms will give you the winding number for construction with characteristic suffixes of .0019→.0091 of tenfold for mirroring the relation of square root of ten and 11 in the composition of the golden section thus these show as for example .0073,.0064,.0055 something like the way vectors sum in Gell-Mann... then also these forms find a quant in .0156 or the reciprocal of 64 thus perfect square 8 matrix and a relation of .01,.10 then per .0156 to .1056 e .0056 times ten as .56 if squared is approx. pi and .56 as in reciprocal is 1.7854 and .7854 times 4 pi (which we have observed at 3.1416

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marks .1416 times 5 =,708 or three times our .326 form... with .708 square root of two and a dual .707 over complex construction...the .0156 term fills the golden section grid evenly and all terms approximate multiple e.g. .1056 approx 7 times .0156... noting .7854 is complement of the reciprocal of the Feigenbaum which gives a window on how the diminutive suffixes .0019→.0091 become ratios to fuzzy number expansions via tunneling modes...visited to Physics instantons and also Calabai Yau string theory... Turning then to our specific selection engenders where the interest now in creating tuples of .3168 or the reciprocal of Pi (and we have observed

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the golden section composing on the square roots of ten and 11 added in reciprocal are in the counter reciprocal square root of ten 3.168 approx and so ten times the reciprocal of pi and square root of 11 ..3.3168 approx thus three times unity plus the reciprocal of pi and pi as 3.1416 poses three times unity to 0146 which times five is our .236 version of the golden section winding numbers at the third turn of the spiral from the .618 module... then just as the .0156 composes term the interest becomes in finding the degree of the module .3168 brings the various numbers to a close distance between that sum and a diminutive term which in golden section suffix inherently

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relates to pi but is now phrased as a slight torsion on multiples of pi where the tunnelling then of that smaller term can propose higher dimension tunnelling... This means then that by finding the transcendental number pi as mod we can study into the difficult proposition of quantum randomness while preserving a referent to ordering via harmonics. The specific selection as mentioned then, to begin with the D*Charmed physics particle of 2010.26 to metric per mass that number to negative seven will be 1.126 which is the number of the complement of .112 where .112 is the value of the vacuum permittivity in reciprocal and .888 complement is 1.126126... and .126

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squared is .0156 the reciprocal of 64 the 8 fold perfect matrix and .64 is 1.56 and we have observe .56 relations to pi in previous detailing... also then 2020.26 in reciprocal is .0004474 we can naively normalize as 3.4974 and this in reciprocal .2858 is to negative five .854 which added to unity is 1.854 or three times the .618 golden section module as well as being in reciprocal . 1.1708 where .1708 times ten is 1.708 and .708 the square root of two composed on three times the golden section term of third turn of spiral from .618...

Decomposing 3.4974 to multiples of .3168 the reciprocal of pi gives 13 such multiples with a remainder of .2864

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which to neg 4 is the .854 term just analyzed...and .2854 to neg three is .73 which times two is 1.46 or ten times .146 the third turn of golden section spiral from module .618... that then gives the prism of Pi constraining the golden section spectra in this case...where analyzing
In Physics the D*Charmed Particle of value to mass ...
Another Physics Particle to next consider is the Baryon B which at 5792.4 metric to mass is in reciprocal 3.1726 and this divided into unity .3151 which to neg 5 is .56 the value which we have observed strongly relating to Pi and the Feigenbaum... The Pi Prism of .3168 modules to this number finds

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ten of these with remainder .0046 of the golden section characteristic suffixes.. and this to the negative six is .854 as previously analyzed to golden section harmonic leading to a relation to pi again thus our mode of utilizing an irrational number as torquing a transcendental via a kind of Exceptional point bridge as structuring therein the approach to the bridge also between the physics to harmonic and pi embedding mapping to Sporadic primes as embedding golden section harmonic terms in a dual reading then of the Exceptional Point... a bit like the 1.1 magic number of thin material lattices ie graphene and this evoked by the relation of ten and eleven as having

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roots forming golden section reviewable to 11 divided ten as 1.1.... Lastly, the Sporadic Finite Prime Series of the Mathieu 24 Group: value 244,823,040 in reciprocal 4.083 and this divided unity .2449 which to neg 3 is .703 and this in reciprocal 1.4224 finds .4224 complement of square root of three and to neg 2 is .65 or unity plus .5393 that decimal being reciprocal of three times the golden section module .618... then the original 4.083 value will be 12 times the module composed of the reciprocal of pi .3168 which itself is 3 times .1056 the gap between the square root of five twice applied in a square and .1056 approx 7 times .0156...the value of 64 the square

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of 8 and this .0156 composing the quant of the golden section grid and also the structure of the Planck as wraparound term e.g. 6.62617015 where .015 wraps around to 6 and 6.626 marks .62 aprox .618 golden section...

The thirteen-fold has a remainder here of .2818 to neg 5 is approx. .927 which is a ubiquitous exceptional point in golden section products and doubled is 1.854 or three times the golden section module .618...

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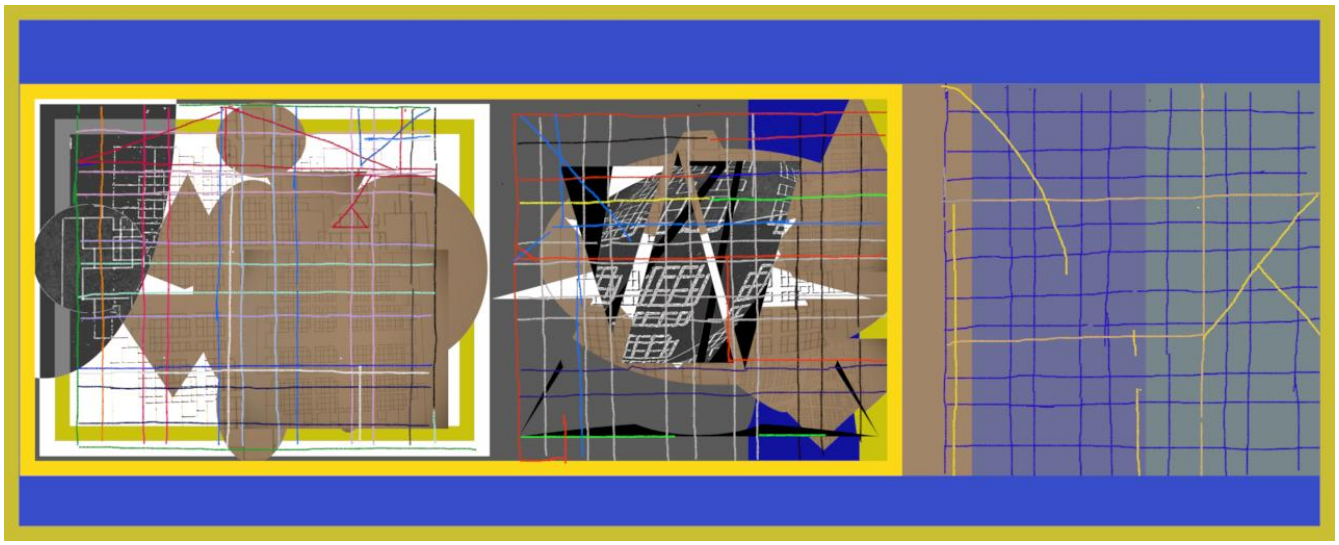

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Monstrous Moonshine Butterfly Bridge Collection 18/26 Lorenz Lensing The Gnomon Toward Exotic Spheres and Higher Strings

The butterfly form which emerges mathematically where a state of compression elicits fuzzy numbers whose states of transition alter ratios and project them in essentially a form of tunneling, bring forth the Butterfly I currently am adding to my collections namely the Lorenz butterfly in the spirit of considering how randomness and infinity relate to each other pursuant then to the previous drawings discovery of mapping the embedded pi content with golden section harmonics to pi as a transcendental representing a

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state of flux between randomness and infinity qualified by the golden section as irrational thus its affine edges and open neighborhoods of torsion and sheer of a kind. It would seem that in addition to the rotation associated with the Lorenz there is also a form of qualified reflection which one could compare with the same idea as reflection modelled as an example performative then to gnomon structure, except that it exists in the Lorenz butterfly adapted to a saddleback moment... and thus in the recursive structuring the motion towards and exotic sphere emerges wih also the projection then Calabai yao

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string forms via exceptional points in the saddleback forms progressions...

What Happens to the linear map in phase Spaces?
For example: there is a trajectory from rhetoric to mathematics I can consult in the terms from formal rhetoric as respectively "Adjunction" (placing a verb at beginning or end of sentence) and "Anastrophe" or inversion of the order of the sentence "you I would like to hear"(and this last has a kind of sub algebra of "Anacoenosis" or asking for the opinion of the opposite party") as one can see how these ideas migrate the idea of spin to "reflection" and "rotation" as a refinement ... within

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mathematics... On another tangent: The artist Ingres for example brought these ideas to drawing art via sharp yet subtle offsets in the composition forwarding a field of reference towards an understanding that one sees one thing only because one sees other things simultaneously and these elements he parsed. He parsed these as tending to rotate else divide in planar sequence, or to round out in tensions shared between decorative and organic structuring...But because he presented this with a tactile emphasis this subtly became essentially his "Butterfly"..
In the formal ordering of my drawing as representing physics particles in golden section harmonics with pi

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embedded as then a bridge to the finite prime Sporadic Series where pi and harmonic structure likewise embed thus the long sought bridge in this case I am presenting the Mathieu23 Group value 10200960 and this to the negative seven approx. 3.56 I am interested in an evolution over the decimal to relate back to the proportion of three times unity to that decimal and .56 times seven is 3.927 and this doubled is 7.854... the structure of a gnomon is replicated in the value of the gamma of 6.854 times the gamma of 6.854 by the recursive property of gamma then the tenth part of 6.854 as .6854 and in reciprocal 1.46 or ten times .146 the fourth turn of

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golden section from .618 module while the 7.854 value at one tenth is the value found of .56 as 1.7854 where .7854 times four is pi... the original 3.56 value finds 3 divided by .56 as ratio 5.357 to negative three is 1.518 where .518 = 1.927 this doubled 2.854 and in reciprocal .35 complement of .65 in reciprocal unity plus three times golden section module while 1.518 is .6584 and this to the third power is .81 and in reciprocal 1.2345679... (ordinal tract for the Gell-Mann 8 fold algebras).... the decimal values brought to point have a succession of golden section harmonic values implicated as .236, .3416,.56,and .6708 where .236 third turn of spiral from .618 and .3416

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is twice .1708 which the second turn of golden section value starting from the reciprocal of the square root of five... and .56 squared approx. pi and in reciprocal 1.7854 where .7854 times four is pi and complement .2146 is reciprocal of the Feigenbaum... while .6708 is the reciprocal of the square root of five plus its own half ratio.. those values added = 1.808 where .808 is also the reciprocal of the Monster Sporadic series member and 1.808 is approx. the value .5528 which is the complement of the square root of five. The frequently met .927 value also constructs from .2997 or c the speed of light and similarly we find .6584 is .188 to the third where this value is 5.292

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or five times unity plus twice 146 the third turn of golden section spiral from .618 and 5.292 is .588 times 9 where .588 is unity plus .7003 and .7003 the complement of .2997 or C speed of light.... The .188 value is that of .088 added to values of unity which frequently occur as .188, .288(this times two approx. square root of three, .388 is twice unity plus square root of three and so fourth all relating to .088 which to neg sixth power is .927... in reciprocal .088 is 11.363 and to neg 7 is 3.56 the value we found to a permutation of the Matheu group at outset...

And then to additionally note we found 1.518 from the ratio

e

of the phase space of the decimal to the unitary three fold at outset, and **the same value is achieved by the reciprocal value of the 10100960 in reciprocal 3.56 and this to neg 6 vives 2.927 and doubled 5.854 then the gamma of 5.854 times the gamma of 5.854 gives 6.854 at a tenth then .6854 in contrast the .6584 value, the latter as 1.518 and former as 1.46 or ten times .146 the third turn of golden section spiral from .618... these incidences of progressing by unit differences as in a gnomon structure are an interesting pun then of a kind of**

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Lorrentz boost to the Lorenz Butterfly!

Note that the complements of .6584 and .6854 as then 3416(twice .1708 the third turn of golden section from .4472 reciprocal of square root of five(two possible tracts, .618 modules via .618 or .4472) and .3146 which squared is .56 as we are familiar with ... and these added are .6562 which is to negative 2 power also .81 the ordinal tract of reciprocal value 1.2345679 it's manifest.

The Particle of Light Unflavored Meson W figures in the drawing at 782.65 per

e

metric to mass in reciprocal 00127 naively normalized as 2.127 to neg 4 is 2.606 or unity twice plus unity plus .65 where .65 is reciprocal of 1.5393 and .5393 reciprocal of 1.854 or three times the golden section .618 module...as we notice .65 in decimal relative 782.. and the original term integer 130649 to negative 6 is 1.5528 or unity plus the reciprocal of the complement square root of 2 (and all complements demonstrate a gnomon structure by definition)...

The Strange K^0 meson as 497.61 metric to mass is to negative seven power 1.101 or unity plus the reciprocal of pi squared...

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The Boltzmann Constant arrives to the drawing as I use constants to reverse engineer the structure of particles and the value of 130869 then to neg two is 361.8 or 3.618 divided one thousand which reviews .3618 as the interesting tenfold whereby .3618 or tenth part of three times unity plus .618 is in reciprocal 2.764 where .764 = 1.309 in reciprocal and .309 times two is .618.. whereas then .2764 as tenth part of 2.764 is in reciprocal 3.618...

Returning to the Mathieu23 Sporadic Group the negative powers of the number find neg 5 producing 2.36 or .236 times ten where .236 is third turn of golden section spiral from .618, the

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negative ninth power gives 1.056 or .1056 the gap between two times the reciprocal of the square root of five in a square and this number corresponds to the reciprocal of pi divided by the reciprocal of C the speed of light. .. the negative four value at 1.718 marks .718 to unity and .718 as in reciprocal is 1.3927 thus .3927 times two will discover .7854 which times four is pi and is complement of the reciprocal of the Feigenbaum...also .718, .618 and .518 produce 1.854 or three times .618...

To the sixth power arrives 1.88 or .188 times ten where .188 to negative three is .6584 as 1.518 in reciprocal and .518 in reciprocal unity plus .927... to

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negative seventh the Mathieu23 value as 1.35 is ten times the complement of .65... and to the eighth power 1.264 marks .264 to unity and .264 times ten will be the square root of seven...

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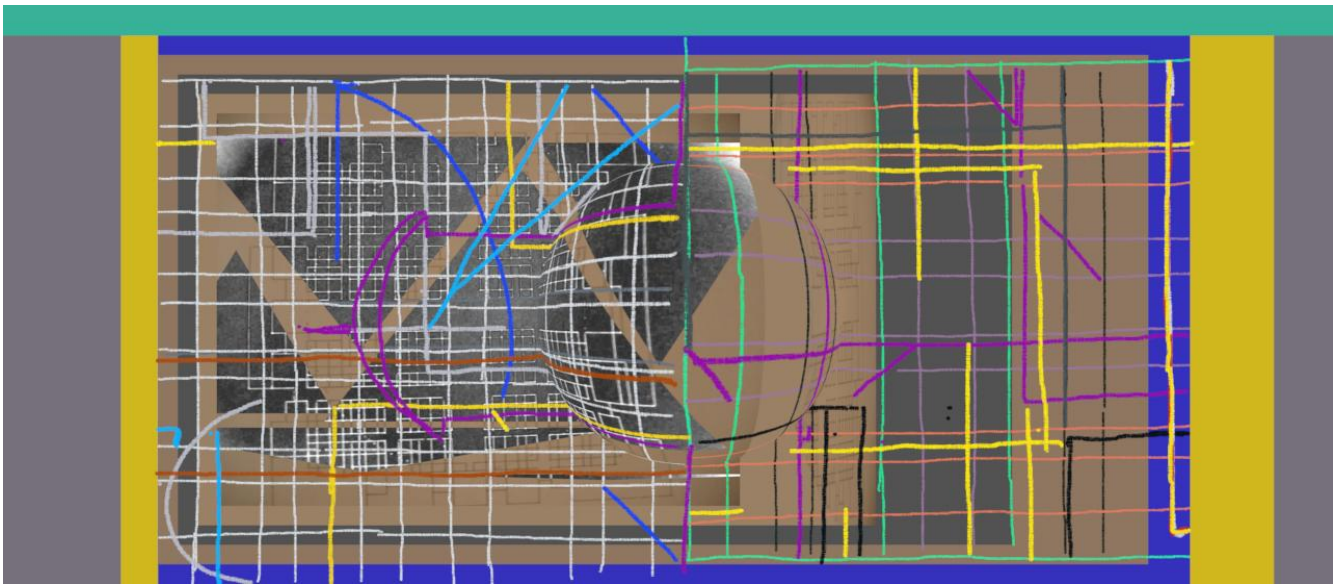

361L5-

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Monstrous Moonshine Bridge 19/26 //: With Honorary Butterfly of Photon Path in Calubai Yao Ten Dimensional Space and Random View Categories Net and Graining

how would one compare randomness of quantum events as subjected to probability in relation to then directing those probabilities back to randomness in terms of a kind of inversion of the process within measuring of measuring...if one divides every measure by pi so one is reading in a Pi language how is this affecting either concept of randomness ie stated to probability or scrambled from and does it relate then to some categorical definition towards faithful representation?

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Part of this has to do with composing an object language... Gellman matrices for example are roots or elements of extension and trees likewise as these extension in categorical terms relating to faithful representation thus distinguish objects from operators such that away from cycles as composed by octonions complex quaternions for example may compose a reaching into quantum randomness and pi as a scaling of phases is then a kind of rescaling of quanta based on a mathematical neo elasticity...

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Does altering a basis vector or basis allow an open set to become random and do categories allow the planting of mathematical objects towards trees in which potentially also consider transcendental numbers not proven to be adjacencies, and as Gell-Mann zeros not random likewise pi non repeating not random nevertheless are they really equal distinctions? It would take more than that initial step, rather also introducing a new topography breaking faithful representation in medical terms perhaps like washing hands to break the chain of infections...physical origins of randomness as strictly separated from mathematical in

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terms of generating true randomness being a point of view I hypothesize is incorrect.

Therefore turning to randomness of nature as source is the new direction of drawing from life to find order as it were... but if the case is construed over both representations that there may be order or not, then they have equal probabilities and so one wonders if those probabilities are entangled so to speak, not separated and this mirrors the case of our considering measure over randomness at all? Then there is no infection but rather an inflection kind to kind in a co-definition which also separates function to potential given an effective state is first reached and then measure becomes primary to the

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ordered version of perception but the underlying effectiveness is self-created and random. That is .. originally drawing from life to find order becomes instead drawing on the complete randomness of nature and so studying out the paradox that in the case of the one or the other there is yet the potential as mentioned , that they are entangled and this would well model the structure of the dilemma we pose in our studies over the quantum predicated on the nature of effective realization of phenomenon which in retrospect might be a kind of measure on natures part in the manner of finding a limit, posed against our actual measuring which yet in contrast is passage as opposed to stoppage to give Duchamp his due...or even Kant of 'the

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conditions of experience are simultaneously the conditions of the objects of experience”... the situation is like that of dissonance in harmony defining towards compressible and incompressible states where a transcendental then creates a noise factor towards an incompressible rescaling over the compressible via an entangled state where measure then is a kind of tunneling between the entangled states of order and disorder...

Make a drawing where probability outcomes of characteristic golden section harmonic “nodes’ such a 1.056, .927, .56,.7854, .2146,.518,.101,.606,.788, which may feature neighborhoods and cyclic structure, rings, may all be considered as

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tree like event to recompose and decompose over rescaling to .3168 the reciprocal of Pi and the probability is a manifold by definition which in the re-composition may structure a bundle density split over corners as independent variable and different group such as quaternion, octonion, real , complex quaternion and complex as well as piadic may alter faithful representation towards studying randomness, locally, globally , and embedding order and disorder as entangled structure.

A good way forward then is to build a graphic representation of the valancing of fields as categorical spectra mathematically relating to physics fields as likewise mysteriously overlapping and in

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the sense we project to entanglement of order and disorder in our hypothesis so far... and the graphic representation that links trees to meromorphic sheets and branches in which I have devised a rescaling to pi as implicating a transcendental noise or dissonance allowing a spectral version of symmetry collapse in physics engaging vacua to dimensional compression to then also mathematical fields interpolating with stochastic and Markovian interventions carrying embedded harmonic and piadic structure through infinity tunneling modes via these metrized simplicial trees generating acyclic notation from categorical injunction and injectivity n the general construct of the Monstrous

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moonshine solution I give of embedding golden section harmonics and pi within the particles and constants and also the Sporadic Group of Finite prime permutations...The notation I then build relates the aspect of a gnomon structure to carry information about rotation relative a centering field which receives a jet like parsing of information splintered over the corners globally to a local dispersion into vectors of radii forming a lensing of the unity sphere. From this normalizing projections and affine plane find also mapping to a one dimensional sorting with nodes marking these that relate to compressed values of harmonic suffixes of the golden section indicating tunneling proximities and fuzzy numbers. The

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engaging the distinction of real to complex to quaternion to octonion I give the structuring modes of the octonion and quaternion their Spectra…

The drawing is a picture within it's own color architecture and the metaphor projects a relationship between the overall project of relating pi to harmonics in particle physics relative the Sporadic Prime Group towards constructing the long sought Monstrous Moonshine Bridge… while also incorporating a very personal version of the Amplituhedron which is construction towards a physics of pure geometry which actually eliminates the need of "pseudo particles" and is a very open, ongoing investigation…

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if one considers that any group of points randomly placed in a say orthogonal field cannot be projected i.e. no clone... but a wavy line can discriminate these into wave sectors which have spaces or no crossing zones...and by adding or subtracting energy these can be modified into diabolical points... whereas if onto this plane one projects from a base line divided into points any pair as a triangle signifying our sense of left and right in measure the triangle is actually a refraction and a single line itself in the form of gamma...an open arc over the apex will signify a saddle back

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while closing it signifies the diabolical point form...double triangulations creating lemmas then invite these refractions into entanglement and a growth within the process then to complex Hilbert spaces. (this then seems a view into the Slit Screen Experiment}...

The drawing takes interest in comparing the Octonions link to a six sphere, that and the normal sphere we think of being the only ones that directly support an affine plane projection with out overlaps in the homotopy of spheres, then any exceptional point in the octonion process essentially turns the wheel of shall we say our monstrous moonshine,

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and this I like to compare with the passage of the massless photon (which from its point of view does not experience space or time) through the Calabi Yao tenth dimension. The drawing plays these forms off of each other... the photon in the Calabi Yau form beyond our perception of course but coming across in other dimensions just as all fields via wavicle form are justified from higher dimensional sortings... a paradox of what we can see and not see like Michelangelo's figures emerging from the block... or the link of Order and Disorder as entangled accordingly yet a higher dimension over these...the photon the perturbing the space it travels through

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while itself massless nevertheless at a black hole finds the space itself which it follows taken into the BH and then experiences a perturbation … what happens to string level compactification in a black hole… the idea then emerges relative “fuzzballs” or the string theory which seems best to comport the micro aspect of photons within Calubi Yao ten dimensional space relative the three dimensional phenomena of a kind of parallel transport between dimensions taken then to the black hole scenario where rather than the strings destroyed the event horizon is reconsidered as instead simply the outer surface of a fuzz ball of strings

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which compressed into new couplings create a series of states web like, mist like, plasma like which one can approach from the beginning by comparing the discrimination of the human touch as a sense of knowing compared to molecular and string boundaries where different states anticipate their phase space moments over entanglement and the blackhole has extended that d-brane or local micro scale to a macro scale in which then the potentially charged but waiting like plasma states or mist like border coupling relative jet like expulsion map or embed the web like structure of the phenomenon to the cosmic web on massive scales... which

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can be approximately imaged by sonoluminescence or the effect of sound waves on bubble foams as analogs of sound collapsing to emit light as like the release from black hole of the jet form embedding the projection of the black hole complementarity... which returning to string theory in heterotic form is considered in this drawing as relating the octonion to sinusoidal wave forms of the complex dimensions emerging from duals of complementarity foci... From the vantage of the octonion and its seven fold is sympleptic ie seven imaginary units the basis orgin in the number .81 as in reciprocal 1.2345679 the ordinal tract with complement .19

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an squared is .828 and doubled .65 approx as in reciprocal unity plus three times the golden section module....invites in the micro dimension coupling tunnelling aspects of fuzzy numbers into the fuzz balls initiated by the golden section suffixes where the growth pattern of the golden section as the square roots of ten and eleven added in their reciprocal form give suffixes in tenfold form of .0019__>.0091 e.g. .0082, .0073..0064 etc and these scales to each other initiate catastrophe extensions of scale corresponding to d brane expansion... The terms used relative Monstrous Moonshine ie physics particle values relate to Finite Primes Sporadic Series

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are in this particular bridge composed Conway Group 3 value 495766656 in reciprocal 2.017 and this to negative 3 as .8393 is in reciprocal 1.191 and doubled is 2.382 or twice unity plus the complement of the golden section module .619...The physics particle here is the charmed d^+ particle at 1968.34 mass to it's metric then 5.0804 in reciprocal and this divided unity .1968 or its own ten fold and this times 6 as 1..118 then doubled is the square root of five... the drawing also brackets C the speed of light as it's reciprocal .2997 to neg fifth power as .927 expressed in Calubi Yau form in the drawing per the exceptional point with interest toward photons travelling in

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that space and encountering blackhole fuzz ball face potentially while also .2997 times 3 is 1.112 where .112 figures as a reciproca2l of the standard vacuum permittivity in Relativity...and the terms .891 as reciprocal of 1.112 added to .927 give 1.818 which to neg 5 is reciprocal of square root of five... the drawing relates the square root of C divided by the square root of Pi as giving 1.056 or ten times the gap between the reciprocal of the square root of five in unity and .056 and .056 times two then .112 as we have seen with unity 1.112 the vacuum permittivity and .056 times ten as .56 then 1.7854 in reciprocal where .7854 times four is pi and its complement

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.2146 is the reciprocal of the Feigenbaum...

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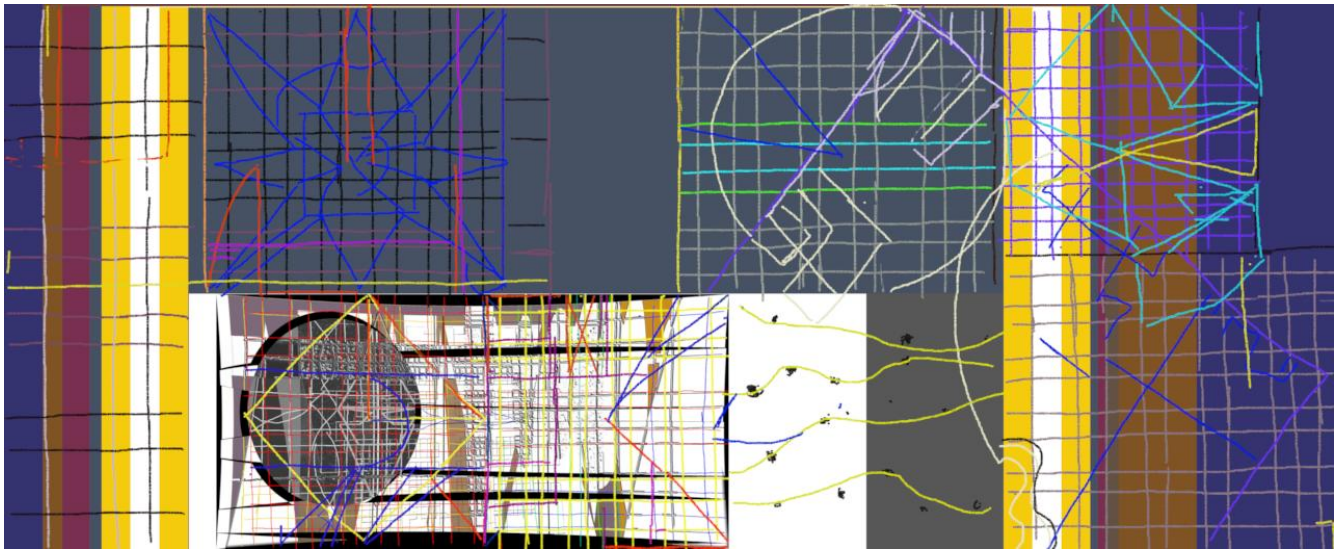

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Spectrum of Triangles and Embedding of Forbidden Routes in Amplituhedron or projective geometry .
(where the forbidden are derived of Octonions... mathematical Monstrous Moon Shine Bridge 20/26
With Apologies to the “Can You Hear the Shape of a Triangle Problem:
forms continuing the rotation aspect of quaternion to higher dimensions

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Where I work are glass pyramid skylights of basement level structure which one can view from street level and these are in a series which when examined give triangular reflections of the environment which are quite striking “toy worlds” as it were…I am interested in how these condition my imagination of triangular matrices and that relation to “Pascal’s pyramid of basis vector constituents…there is for example the source word pyramid which composes on the Greek Pei or transformation thus made pyros or fire of which the dancing Pyramids

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in fire amid its pyre are perhaps the first Fourier Sequence and as such the idea of different sized triangles and how they would rotate around each other in a triangular field which expresses by diagonal the ratios of rectangles motivates the drawing which at same time is bridging physics particles to Astronomical scale piadic forms in the ongoing Monstrous Moonshine Bridge I describe as linking the Finite Prime Sporadic Group to Physics particle via the embedding of pi in the golden section per both models and modules...

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Towards Combinatorial Algebraic Geometry

1,0,0,1//: GR/RG

As there Is the mathematical field which studies irregular polygons, polytopes as containing vision over manifolds comporting possibly a view through Pascals pyramid as views of basis vectors graining a renormalization group as a kind of RG/GR potential and having alternate elastic and plastic possibilities separate, linked, or both separate and linked.. In that case a spectral analysis of triangles

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over such fields as Catalan analytic, geode and amplituhedron as well as scalings between polygons and their inverse star formations leading in some manifolds to butterfly forms for different reasons would be suggestive...

Drawing: on the triangular rotation of rectangle interior scale to the square root of two times 4 = square root of 8 defined on halves of two adjacent such form from opposite top bottom duality. Relate this to a honey comb graphene lattice recomposed to a similar triangulation featuring the two "atoms" which entangle over

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negative space...Relate this to a fourteen-sided polygon or tetrakaidecagon which subdivides into many varieties of seven rhomb surfaces. Within this a ten sided polygon or decagon and relate this to the tenfold of the golden section .3618 and .2764 terms where .3618 =2.764 and .2764 =.3618
and unity = two times .3618 +.2764 and 3.618 is three times unity plus golden section module and 3.764 is three times unity +.764 which in reciprocal is 1.309 and doubled = 2.618 or twice unity plus the golden section module while also the complement of the golden section

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module... Create tile forms of the golden section suffixes and multiply them to explode the ratios...relate the scales of the inner triangular or rotated rhomboid to the orthogonally placed as reciprocal i.e. relating to each other as multiplication and division norms... Explore the potential for the tetrakaidecagon to relate to the octonion via seven moduli factor... Thus embed the octonion in the tetrakaidegagon as double cover o the heptagons and relating to the seven complex moduli of the octonion... then relate a toric

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analysis of star hedrons embedded duals to the polytopes...
In retrospect then these directions I give the drawing can be related to Einsteins observation that parallel transport involves an object becoming more compressed by gravity (so if you think of this parallel transport as the sides of a polytope via that expression there is this distortion and at the same time the radius is becoming closer and closer to Pi that is extending the definition of that long number (infinite) in relation to potential compression towards singularity leading to one wondering how

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these infinities compare, where then the time cone might be irregular and if a black hole measure in effective mode states to a white hole and this in bounce theory perhaps contained and diverted to string mode of then the mathematical containment over the effective and so broaching then quantum comparison of order to disorder so also realizing that an integer basis of evaluating higher dimensions need not be necessarily apriori and that fractional dimensions such as the tiling by golden section suffixes in the drawing broaches such an approach

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which has resonance then to the projects main gates which are realizing pi embedded in harmonic golden section over particle physics simultaneously related to the finite primes sporadic series...
The numbers motivating the Sporadic Primes Bridge to Physics in this case the Xi baryon as 1672.45 as in reciprocal .0005979 which to negative 2 power is .0248 or the 4 turn of golden section spiral taken from parent square root of five at reciprocal .4472... 0005979 naively normalized a 3.5979 if to negative 4 is .854 which added unity is 1.854 or three times the golden section

e

module .618... the number 1672.45 of origin is divided 1000 approx. 1.6708 where .6708 is three times .2236 which is the half ratio of .4472 the reciprocal of the square root of five... The drawing references another Barion namely the Bottom Xi at 5796 to mass metric is 1.7253 and this to neg third power is 1.146 or unity plus fourth turn of golden section spiral from 1.618...

Finite Primes Sporadic Group: in this case is Janko 2 at value 604,800 and is in reciprocal 1.6534 approx. 1.65 or unity plus the reciprocal of 1.5393 where .5393 is the reciprocal of 1.854 or unity plus three times the golden section module... or

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1.6534 to second power is .808 and this times seven is 5.65 or five times unity plus the previously described term of .65 as relating to golden section...

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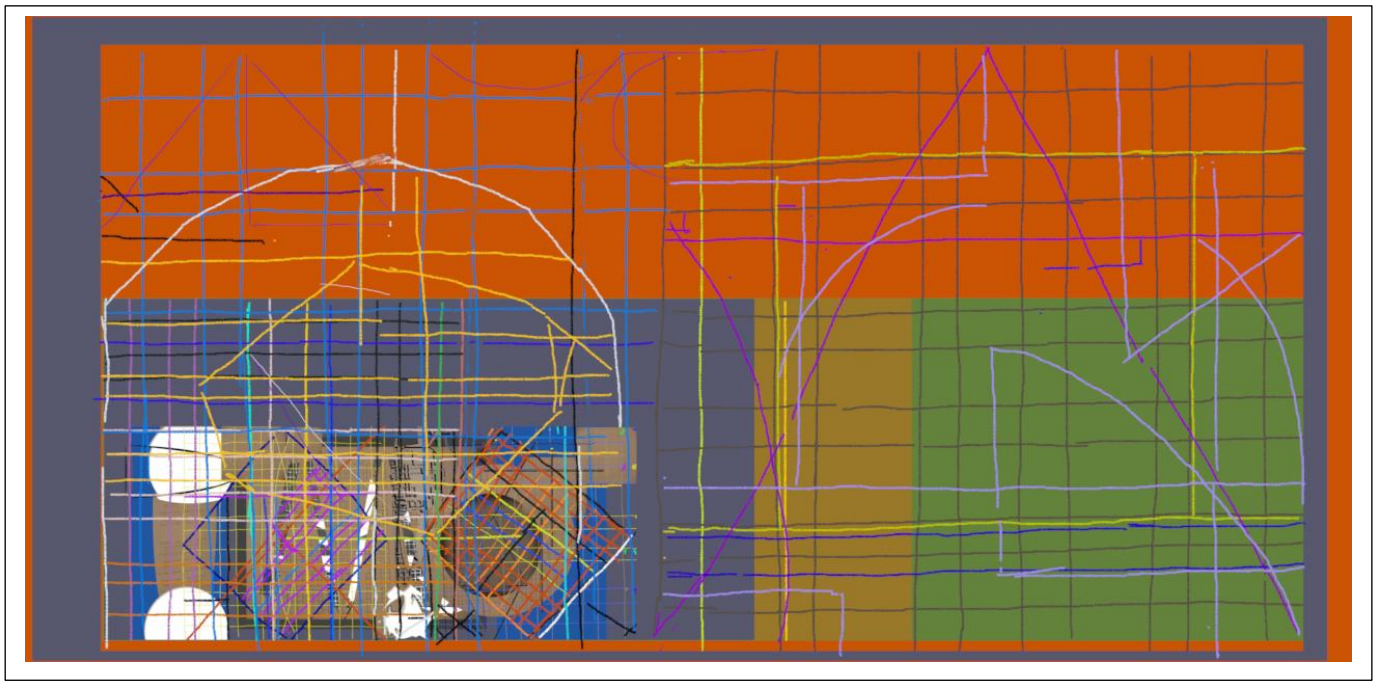

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Monstrous Moonshine Bridge 21/26 Priming the Pyramid and a Sliding Gamma Gambit through Flux Columns

Plasma as Resist t Fuzzball Nano Printing in the Holographic Plane

If mathematics can abstract physics, the event of nanolithography would seem to make physics an abstraction of mathematics... in a kind of printing...

That a photon to its experience finds no sensation of space or time must be the indicator by which we read the spooky action at a distance potential...somewhat related then if we consider a fuzzball as the condition of a kind of pseudo plasma as it were the

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stretching of the distances of branes relating to entanglement as a printing process of sorts over superposition particularly as top and bottom quarks may have indications where couplings between strings in the fuzzball plasma encounter nano scale entering different Atto time and post Atto time possibly via vacua differentiations...if the fuzz ball is considered a kind of resist over which entanglement and superposition etch the distinctions between nano dimension and expanding Atto time to post atto time then also complex dimensions carry and indication of print-form process over space time as the resist potentials overwrite. The

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effective interruption of spooky action in practice can have to do with building ridge like forms which collect a dissonance or else altering a beams fluctuation where one is acting on molecular potentials reading each other...

Then, entertainingly, wormholes and strings as positive and negative tensions on a plasma like definition of a sphere present the holographic plane as the extension of that surface in its print like definition... Where the sphere can be thought of as the tension

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between pi as clarity towards its own definition by phase and a harmonic mode carrying the idea of those tunnelling modes at Universes inception wherein matter and anti matter at a separation between time and space congruence elicited higher dimensional repose and in this drawing then the baryons represent this particularly the Lambda Beauty baryon which initiated the discover of the resulting quantum strange number...and open up the realm of considering time as faster than space as faster than light considered under effective non locality and emergent time....

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Structural gambit: The Drawing is interested in the structure of Japanese Buddhist lecture halls in which a rectangular layout of columns encloses another as the primary objective. However I wish to modify through the drawing this idea by giving the columns completely varied and different diameters with the values of golden section and pi embedded per Monstrous Moonshine connection where then in context this long sought bridge creates an essentially non equilibrium arena in which the disorder may relate an entangled order through the speed of entanglement to the

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diversity of dimensions...while playing over mirroring, rotations, skews and transposals of effective motion redirecting the events of refined scales to tunnelling and chiral symmetry release Vacua comport of and dimensional spaces and subspaces over the combinatoric events.

If one were to interpret the Ricci flow as something like the differences between such incidences in a summed graduation toward a product and then a condensation one could say this is analogous in general form to that of the Iching Trigrams although of course here we are starting from a Japanese temple... which nevertheless were

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influenced by the similar abstraction of Chinese joinery in timber-framing...

Along the way... it would seem columns on center are analogous to superposition while columns off centers are entangled to a dual they create.

In general the interplay of forces in nature as mirrored in the game-like play of mathematics shows in the combinatoric of reciprocal relations to begin with in multiplication to division as the count of either unitary or modular terms (modular in the sense of partial unities) thus one decides in ones way of counting whether one is counting unitary terms as such or

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partial sums themselves as such bundles. In this spirit the term torus for example was devised to state irrational fractions and, in the term, combinatoric the torus as term similarly indicates an embedded mode of counting. Multiple directions of embedded ways of counting then yield the idea of "attractors"... whose meromorphic structure or action nearing limits may for example become "strange attractors" (suddenly morphic ie fuzzy numbers) and this actually has some resonance and alignment even with for example the 'strange" quantum number ie a physical strangeness or new ordering in particle creation via

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incidence between strong and weak forces in certain conditions (which actually mirror cosmogenesis)...

In the drawing the varying cross sections of columns give a kind of flux space within the golden section grid as a matrix which then is referenced as a tension between equilibrium and non equilibrium in the additional structuring...

The Monstrous Moonshine bridge relates an embedding morphology, that of the golden section harmonics within both the Finite Prime Sporadics and the Particle Groups, and we have mentioned Ricci curvature as a mode to

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explore a combinatoric approach which then it Is also to interesting to explore in terms of my generating goldens section grid which is Hermitian and cyclic toward relating further in this matrix composition the potential to explore the tension between group morphology as in Category Theory relative then to Group Representation or the matrix like composition which may be devised to sort the events of dependence and independence or free vectors and projected or induced in the resulting rank of the matrix as it essentially tests D brane structure to Calabi Yao morphology in higher dimensional array...

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Question: would one say the Ricci curvature, a Fourier transform, or Dirac Comb as generalization are then inducing structure thus not natural or independent but rather are dependent structures in the matrix? Does a higher dimensional brane involvement revert to an independent mode in structure or is it weighted as a projection?...

Relates to spiro-lateral form pertaining to density of turns invented by teenager in 1962 and similar to Stella...

Relate turning number to winding number thus k dimensional...over n dimensional where density variation may also meet the relation of analytical

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distinction and morphology to Group Representations

Understanding Star polygons as different from Star Shaped polygons the overall inflection of star algebras to winding numbers toward also trees and branches of meromorphic order then also Van's Algebra of edge formed polygonal stars as collapsed polygons so Nouvau Nova so to speak...the spaces can be modified to each other like black hole receptivity and so study out how diverse polygon Nouveau Nova stars can tile... and how jet forms as independent function expressions may relate to stars and winding numbers per density factor and bulk

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mass considerations to morphology and isomorphism...free and independent modes in matrices as well towards Schur complement via Gaussian elimination and my own sets of vector formation accomplishing within those general parameters... Bulk mass being the subject matter of the reciprocal nature of division and multiplication as per modular partial and unity wholes in distinctions studied out from first the gnomon and then in matrices translated to reflections and mirrorings where torquing over these independent vectors composes to dependent ie work to be done forms over the sheer vector mode of force and direction which as

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originally vector applied over points of field modifies towards a translation which in turn can be boosted to dependent or working order…

The drawings parameter’s then evolve to a consideration of the golden section matrix I use which is 12x12 and which has embedded and 8x8 representation of .0156 as Planck like (64=.0156 in reciprocal)…orientation analogical to a Chern number in my system…as 144 is in value .088 the characteristic golden section range of .088→.988 serves as a Gaussian Triangle structure (taxi cab form)… the range of .1056 as distance between twice the reciprocal of square root of five in a square serves as

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analogical to a Brillouin zone... Jet like structures from corners suggest independent vectors where the dependent and independent values of matrix variables comes into play towards projection and manifold orientation to orbifolds per moduli space directing Calabi Yau compactification per Kahler Manifold characteristics of complex, Riemannian and sympleptic order in which a variety of vector forms in my system are analogical to sympleptic structuring between category theory and group representation...and the Kahler attributes generally... One notices then that imbedded in this formal gambit is

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the relation of the Fibonacci numbers to Pascal's pyramid...

If relating the octonion as a conifold to CY space requires essentially a modelling of the canonical bundle to find a higher dimension for the correspondence and the Calabi Yau fifth dimension as an instanton space is compose to the primitive root, and considering that Pascal's pyramid has a gamma corresponding to the Fibonacci or golden section series is there then also the same gamma to be said for the Calabi Yao and reference to the canonical bundle projection... and does

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an instanton field have potential to relate via Eps to what one might call a singularity field and might this correspond to some structuring of thinking about gravity?

And similarly, the drawing considers that the process of placing expander graphs within a frame formed by diagonals of the upper half plane meeting at center a dropped vertical is a connection over hyperbolic spaces which gives a bridging factor perhaps analogical to previous proposition by degrees...or for interesting variety say the expander graphs were branches formed from tree graphs....

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Additionally we ask: what are the implications of moving the reciprocal of the specific *osculating* circle into the circles closure i.e. the curve into the circle itself...

In the left panel of drawing the space is dislocated and draws in a coherence of situational differences as composite, in the next panel are modelled topological spheres from the source of polyhedrons collapsed to general star form but including edges (not an array of points) and these interlock something like merging black holes and if in fact thought of as spinning then this outer spin circle composes toward the topological sphere identity even as they

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begin to enclose or embed and thus of the osculating circle indices there is the entry mentioned of the “reciprocal” ie a curve which leave a timi like trace one can compare to an opening or jet, receiving of ejecting potentially as in black holes... while over this is the specific Fano plane of the octonion as a an orbifold of an order which can join the fifth dimension orientation of Calabi Yau from the seventh only with some modification (one thinks of the point to point symmetry of polygons of one type versus the next level in which loss of point is replaced by a bevel so to speak which itself might be thought of as potentially spinning... (i.e. in

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superposition to a shall be entangled point…)….,

Echinus the Greek word basis for Ekei or “being” i>e. “existence” means a spiky projection like a plant, or sea urchin and so this star like point array can be seen in the sea urchin shell conformal to a torus… and in the mathematical Betti numbers which are an alternative to “Euler’s Characteristic” (which by subtracting edges from vertices and these from faces give a product that is a kind of image of the symmetry) the Betti numbers draw forward by first establishing a void, or space…and the torus then relates to topological

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spheres as successive dropped voids so to speak which essentially model the idea of “Sheaves” and these as density modes of bundles or jets…pulling these torus levels per sheaves laterally then from their mirrors will create the brane extension which finds parameters in orders of differentiation, operators, and functors…

Echinus Not Daedalus Over Monstrous Moonshine Bridges

Returns also on Duchamp ie Occulist witness is more likely osculating witness

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thus the expander graph is in essence the relation between a space and it's cover for example bridges in the sense then of whether the proportion in not bottlenecked but carries weight....

The drawing relates an introjected measure via octonion to the degrees of the grid in use where the golden section grid relates 12 by 12 and and embedded 8 by 8 in relation the octonion relation to group seven and also 5 via string theory toward Calabi Yau compactification.... The projective aspect is then staged in the upper half plane...as the expander graph in rectilinear terms in contrast the centering of the osculation terms including trespass which is a form also of the expander but in the half plane version the diagonals to

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center at half then drop a vertical and this is the invitation to a formal entry or gambit on sheaves, bundles and jets.

There is additional interest in using the same framework to model in the spaces different polytopes growing in a surface metric corresponding to the grids relation to 8x8 and the .0156 value that covers the surface evenly as it's quanta so to speak...the growth pattern that of the spiro-lateral mode which has a kind of complementary value to parallel transport...so... seems like the general relativistic wrapping of the curvature in motion exists on the one hand with also sinusoidal motions relative masses of which then the overarching gravity is like a

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slice through a sinusoidal form which only completes locally?

Or… a Newton-gnomia estuary bestiary to passage presage enter Duchampian modes…for a moment… as Pascal's pyramid riding the golden section for example the "chariot" (with litany)…in our age rewritten Octonion incandescence? (as a rider post Ryder…)… gambit galore the gamma of the section in Pascals pyramid to the gamma of Calabi Yao in the n dimensional chess and associated romantic landscapes of the simultaneous embedded in the simulacra.. and then again regain the Monstrous Moonshine Bridge..or via Joyce FW 'via a vicarious vicus of recirmlocution we rearrive at length to Howth Castle and Environs…

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“Roofed Polygons or odd Landeau Polygons are subject of the “Geode” the mathematics of which allows polynomial calculations past the fifth dimension, a theory associated with dark energy via geometrical counting… these are the polygons we previously mentioned where one of two vertices that are the symmetrical slice is replaced with a flat bevel indicating dropping a dimension…thus the combinatorial approach allows one to find or regain dimensions .

The particles involved in the Monstrous Moonshine Bridge on this occasion are The Lambda meson, the Charmed Lambda Meson and the Sigma… while relating to

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the Fischer group two of the Sporadic Finite Group.

The Lambda at 1.115.683 to metric is in the decimal .6832 approx. the value in reciprocal of 1.46 or .146 times ten where .146 is the fourth turn of golden section spiral from .618.. the reciprocal of the whole term is 8.965 and this to negative fifth power is 1.73 the square root of three where .73 and two is 1.46 or ten times .146.. as was .6832 as mentioned at outset as module sequence of golden section..while the reciprocal of 8.965 as .11156 is to negative third also square root of three.....1533 to the negative fifth is .888 and this number in reciprocal as 1.126126126... finds .126 squared as .0156 which is the reciprocal of 8 and the value

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covering the golden section grid as a kind of quantum and the number also structures the Planck...Finally: the Fischer 2 Finite Sporadic Prime Group as 1.255,205 in reciprocal or at tenth value then .125 and this is approx. .0124 times ten or .0248 times five where .0248 is the sixth turn of the golden section composed from .4472 the reciprocal version of its parent form square root of five as 2.2236...

7.9668 to the eighth power is 2.3168 or twice unity plus the reciprocal of pi and the square root of ten as ten times that number plus the square root of ten as three times unity plus that number are summed then from the receprocals as the golden section...

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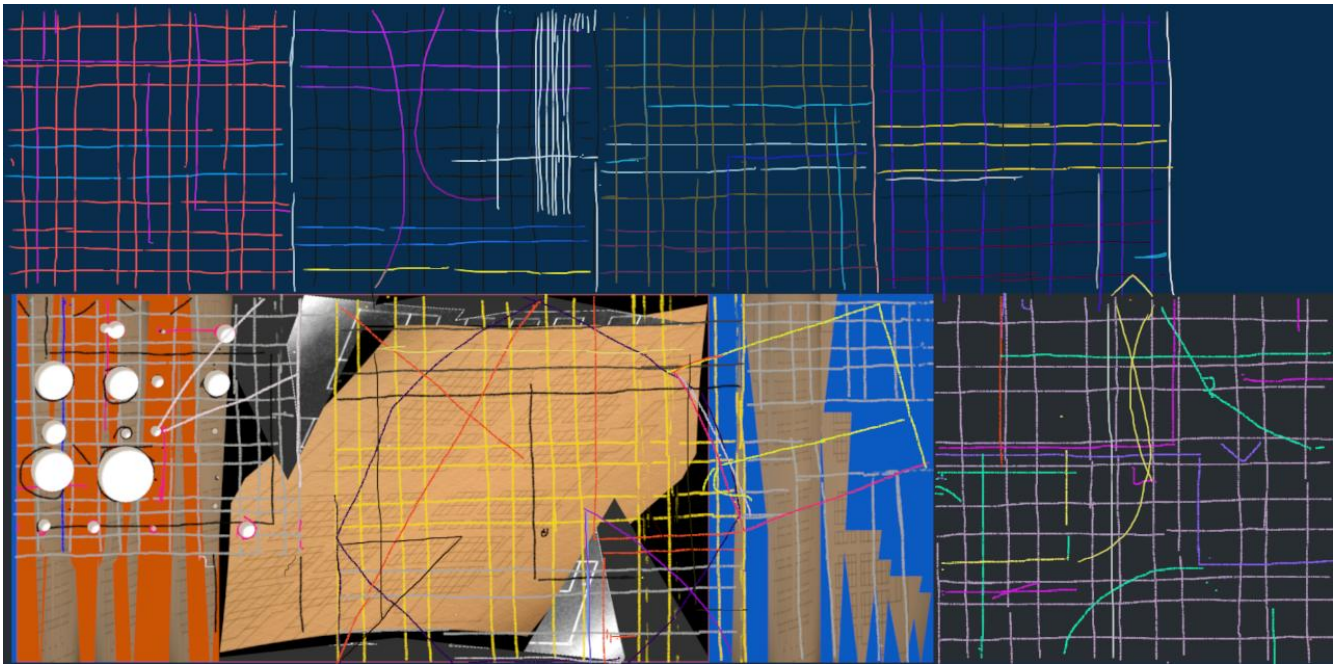

361q9

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Monstrous Moonshine Bridge 22/26 Flying Blind and Points of Perception from a Horned Alexander Circle and a Cantor Tree...

Q: with Heidegger's Kant that "the conditions of experience are simultaneously the conditions of the objects of experience we can pose the Einstein Stress momentum vector as relating forces to phenomenon on the one hand, and then turning to Betti numbers the dimensions 3+1 give a visual pre-space for combinatoric counting of the isomorphisms up to their zero from their faithful representation locally and from there may study into the potentials of Exceptional points, Kahler metric, diabolic

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and saddle points as the arena in which the dimensions now non visualizable except for the representation in fact bring the difference between group representation and category theory into more generalized flux like co-definition where the conditions of experience are now that of flying blind… the constraints then on spaces and vacua exhibit along with a k to the n and N to the k comparison a vast diffeomorphic range of these abstract stress tensors… how might one characterize the most useful of these for building towards the rest… ?

Where: Holes = Stoppages//: Exceptional Points = Passages…

Witness Heidegger of 'being of being as being" e.g. a manifold…

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Consider Density Mean Field Theory: Iterations may over-smooth Density considerations thus the spatial implications are of interest in resolving toward stochastic or possibly plasmodic indications of the phase space evolutions.

Space is configured between Category Analytic and Group Representation: Turning to Ising model: resistance factors between dipole spin agreement which one cans use on the lattice model structure differences in the combinatoric variety of projection.

https://en.wikipedia.org/wiki/Ising_model

The graph model becomes of interest then in relating to Betti numbers and Poincare polynomial because there the graph itself becomes a dynamical object which lends

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itself to studying the sprawl into higher dimensions from a variety of standpoints.(stand points!)...moving towards Exceptional Generalized Geometry...

The octonion structure as generating the higher dimensional sphere packing in 6, 7, and relating at 7^{th} to exotic spheres) 8 dimensions quaternion in 4 and the leech lattice a 3 times 8 configuration seems to show possible connection to the three generations of particles and the fact other dimension not decided linking to dark energy via the forbidden routes? A sphere is not pointless... in fact has infinite points so does the kissing number show betti numbers with the aspect of points as

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Exceptional, diabolical, saddleback exist in superposition where we have infinity minus one otherwise per potential groupings and the variability of octagonal to tetrahedral negative spaces in the packing together an order where forbidden dimensions now grow tree like but with those holes marking exponential growth patterns which respond to diabolical saddleback and Exceptional entanglement from superposition in those exponentials possibly in an apeirogon like model...

7 Arches Apeiron: The Apeirogon:... Imaginary Numbers On:

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. . . let the sigla indicate the indices of Catalan Combinatoric of The Betti numbers towards the Octonion and it's 8 imaginary numbers manifest on hypersphere space per the previous discussion where were found the points on plane at infinity minus one the suspension clause of the bridge toward superposition state of the points of potential as saddleback, diabolical point or Exceptional point between the fastest speed , that known as entanglement...(where the apeirogon is the polygon of infinite sides)...and Apeiron the Greek for manifest)...

The general points of interest of this bridge follows the construct of manifolds

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interpreted through Betti parsing of dimensional reference and Poincare weighting returning evolution of manifolds to sphere as a complementary space of embedding which when reached disappears somewhat in the manner of the fuzzball paradigm of black holes perhaps and in our mode of considering pi embedded in the golden section relative monstrous moonshine ie relation of physics particles to Sporadic Group of finite primes then the mathematical structure of group representation appropriate to Perelman's exposition on the Poincare conjecture where equivalently we can say of the surgery proposed over evolution in phase space modelled on rici structure that this is as well a smoothing

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via a redistribution of the function spaces modelled on the proposition that Terence Tao notes of the Perelman namely that "the hypothesis is quite natural because the arguments also show conversely that finite time extinction for the Rici flow is only possible when the fundamental group Is a free product of finite groups and infinite simple groups".

View From an Alexander Horned Circle over a Cantor Tree

_the Drawing begins by adding to representatives of the physics particles and Finite Prime Sporadic Groups as the long sought Monstrous Moonshine Bridge a long-range meeting with the

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projection of pi whereby to find at the 6564301096694 position exactly that same number as a found square on the circle so to speak... from this then a kind of summary here of the pre-space of the building process by which to advance in general terms the following notions: that considering the diagonals of the upper half plane of a circle brought to center and dropping a vertical as a locus of relation of the square root of two per the square root of four by which four spirals in diabatic formation meet at the center of the four quadrants and likewise four

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spirals composed to the four corners of the unitary squares whole composition framing also gnomon like structures thereby... and I trace out in the drawings preliminary structure 8 symmetries consequent of this which state a sinusoidal effect on the diagonals and allow a rotation or diamond shape at center for example and these 8 comprise also a kind of preface to the Fano plane...The octonion itself then is considered as relating to compact circle packing via connection to three possible generations which in turn reflect on particle generations

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per the relation to Gel-Mann ,Pauli and Dirac Matrices… and this general visualization then is the pre-space of the next generations which are tree like and non-visualizable… flying blind as it were…considering then the growth factor to higher dimensions proposed essentially in a review of Kahler limits e.g. Riemannian (and meromorphic branch cuts and gluing) complex (relative the octonions 8 imaginary dimensions) and simplex (reviewable to the connection of Pascal's pyramid to the golden section)… thus turning on the

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relation of Betti numbers as relating indices to limit and Poincare polynomials as the weighting or graining...one intuits with Perelman then that the Ricci curvature in relation an expansion of say three dimensional polytopes similar to platonic solids towards their "musical spheres' then meeting the limit where adding sides forms a close circle give a point of inflection upon the affine plane over the Betti limit may nevertheless be thought of as less than a surgery over Alexander Horned Circle Like singularities on a Cantor Tree as a renormalization or

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smoothing process one can propose over phase development in retrospect and putting to use so to speak something like quantum collapse on that measurement which can in redistribution be give a kind of super position of potential fuzzy numbers in fact of much future usefulness in time management projections of tunneling and Calabi Yau moments on a superposition also on Exceptional points, Diabolical point and Saddleback points where infinity minus one structures the higher dimensional repose on

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plasma like fields rife with potential…

calculating the value of side to length ratios of enclosing square per polygons side 3→10 the values added are 4.927 in reciprocal .203 and to neg 3 .6708 or reciprocal of square root of five plus it’s own half ration then do we see the fact that the square root of two is not a gon but relates to the gons as then then implicating a view over the Riemann hypothesis?

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The Finite Sporadic Group within the drawing is Mathieu 24 value 95040 in reciprocal approx. 1.0528 and times two 2.1056 where .1056 is the gap between the reciprocal of the square root of five applied twice in a square... 2.1056 in reciprocal is .472 or twice .236 the fourth turn in golden section spiral from 1.618 and ..472 X 5 is 2.3618 where .3618 times ten is 3.618 or unity times three plus the golden section module and .3618 is in reciprocal .2764 which times ten is 2.764 or unity plus .764 which in reciprocal is 1.309 and .309 doubled is 1.618 the golden section... The particles involved are excited Xi at 1535 to mass metric and in reciprocal approx. 3.65 as .65 is in reciprocal 1.5393 and .5393 in

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reciprocal 1.854 or three times the golden section module .618 ...and 3.65 in reciprocal = .2793 this to neg third power then .7236 as equaling in reciprocal 1.382 or unity plus the complement of the golden section module .618... Also showing is the Bottom Xi Baryon value 5796.0 to metric and this is in reciprocal .0001725 and to neg third is .1146 as multiplied by ten then 1.146 or unity plus the fourth turn of the golden section spiral from 1.618...

Note: the Horned Alexander in title references a form of the kind of singularities which Perelson's "surgery was directed toward and otherwise is smoothed by considering the distribution of the Ricci flow while the Cantor Tree represents the growth of those

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singularities in the process of their functions...

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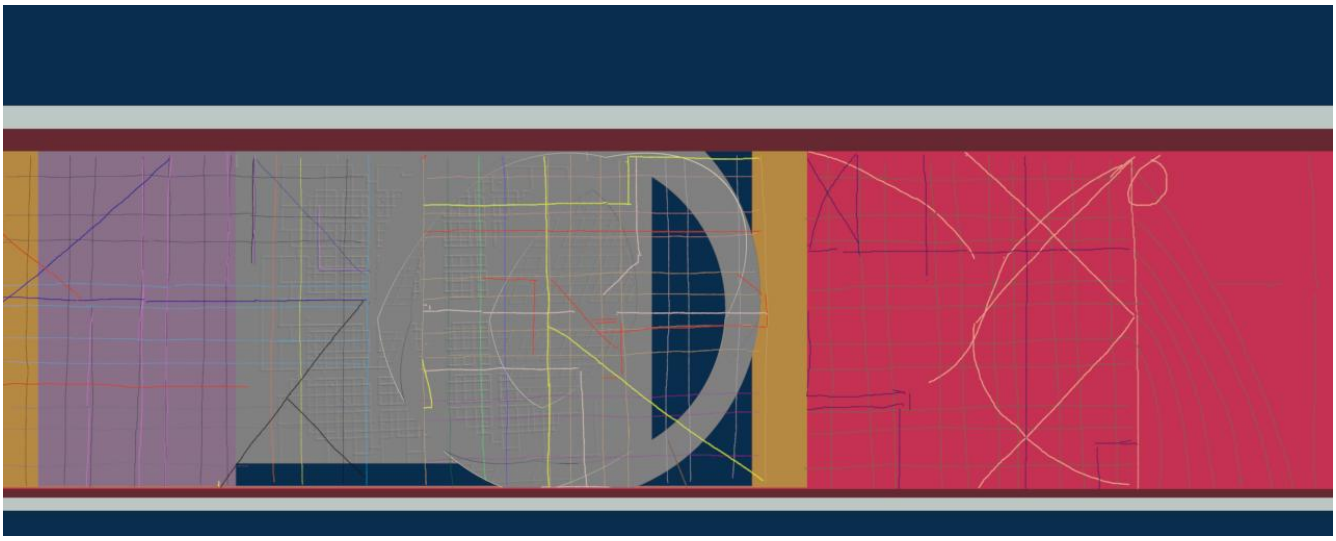

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Monstrous Moonshine Bridge 23/26 : The Alexander Horned Sphere, The Cantor Tree and the Apeirogon:

Continuing a theme of jet like structure from the corners of the composition as independent vectors structured relating a kind of internal expansion as an alternative to Perelman's "surgery" via instead a dynamical smoothing the number of a tuple as a ratio embedded with a normalization via division indicating something like the difference between the shape of a book upright to the remainder which would be a square relative the rotation of the book where then the degree greater than a square, a count of them is its' "reciprocal" suggests associativity of multiplication as vector like

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in that a lesser degree of a greater amount and a greater degree of a lesser amount rotate in a stratum which might be interrupted by variances which become light like punctures through the already interrupted opacity lending association to vacua as likewise combinatorial events of dimensions antecedent the Poincare weighting of Betti thresholds...

This idea then is in itself a smoothing over a community of interests whose papers I will index here and which might be represented by the question :

The bond between Poincare weighting of Betti limits creates a series of ordered pre-spaces while Perelman's "surgery" could reasonably be considered also a kind of

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smoothing over or renormalization over otherwise Alexander Horned Circles on Cantor Trees... but turning from order to disorder and recognizing the transparency of glass as permitted by randomness of atomic bonds and similarly the Cosmic dawn eliciting transparency via an introduced disorder over time it is interesting to compare for example the slit screen experiment where variations in the amplitude of the wave meet variations in the amplitude of probability at the measurement to return in time to Anaximander s view of stars as punctures in the fabric of the sky prototype to Plato's cave then and on this ontological premise taking in the opposite of nonbeing somewhat like "I" the spin on the glass

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such as quantum “ spin glass: or Duchamps Glass emphasizing order and disorder between surreal and hyper real mathematics the thought occurs then that there is indeed some topological resonance to considering solar distributions as holes in nonbeing or vacua, and continuing the thought one might link matrioid theory to string vacua with a dialogue between holes as mathematical and holes as topological?

With Einsteins recourse to Brownian motion or the inflection of energies randomly shaping a medium of exchange one enters differentiation as like a movie which is finite within one infinite “riverrun”... and Einstein summation is key in reverse engineering any view on the composite to an understanding that

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multiples, tuples engendered form in the ration that division decomposes via their image, that is the lesser times the greater or greater the lesser in the associative is framing a scaled proportion of the one found upon the other thus the word “image” is apt in demonstrating towards ratio and this as effectively notes that rather than a review to time over a sequence ultimately space time derives of the stress tensor which is the sequence of image potent to leading entries and their comparisons. Likewise in a physics context Unruh radiation or thermal bath through the motion indicates course from hot to cold or cold to hot are vectors of process adding another level which for example the Penrose Effect makes of the Ricci flux

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in terms of movement are a comparable physics analogy on the general idea of the vector towards elastic rather than only plastic spatial eventua. The study them implicates partial sums, finite and and infinite sets, partially ordered and ordered sets, partons and normalization, compressible or non compressible, diabatic and non diabatic elements etc etc as the elastic medium of independent and dependent vectors of the function analysis and representation... along the way particularly noting Einsteins use of square mean distribution and relation towards Dynamic Mean Theory, Combinatorial Abstract Algebra ,IKKT Theory, and Ito Calculus in those successions and combinations of developing interest and

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potential between the macro and micro representation inherent towards quantum flux arrivals to higher dimensional analysis relative physics where analytic theory meets group representation to probability...

As generally proposed my drawing here studies a jet like structure of inflection from corners of the composition as essentially and effectively independent vector relating the idea of Brownian functions over Brownian domain with a lattice like splintering as the mode multiple determination marking series relation to closed loops and relation of diffeomorphic structures to branches and sheets around meromorphic input into concentric ripples in centripetal and centrifugal valuation like

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the difference between Josephson junctions and Casimir plates…

The drawing as comporting to project of Monstrous Moon Shine Bridge e.g. building the long-sought connection between the Finite Sporadic Prime Group and the Particle Group via relating Pi as embedded within the golden section harmonics in both cases the particular numbers of interest selected here are:

For the Sporadic Prime Finites in this case the Fischer 23 group value 4089470473293004800 taken as 4089 in reciprocal .00249 approx .0248 which from .4472 the reciprocal of the square root of five and parent of golden section is 6^{th} turn of golden section from that point and to negative 2 is .0156 which is the seventh

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position... and in reciprocal 64 perfect square which at .64 has value of 1.56 where .56 in reciprocal is 1.7854 and .7854 times four is pi and its complement is the reciprocal of the Feigenbaum...

The Light Omega meson which was central to Gell-Manns theory of 8 fold way is 782.65 to its mass metric where .65 is 1.5393 and .5393 is three times the golden section module...782.65 to negative third is 5.288 where .288 doubled is closely the reciprocal of the square root of three as .578... and 782.65 squared is 1.6336 finding then .6336 as unity plus .578 and .6336 is the half ratio of 1.27 the term in reciprocal state as .788 which is the square root of the golden section module .618 and .6336 is twice .3168 the reciprocal of pi and

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composed of three time .1056 which is the gap between the square root of 5 in reciprocal form twice applied in a square...

Noting also of 1.27 that .27 times three as .81 is in reciprocal 1.2345679 as an ordinal track within many algebras...

Also considered is the Bottom Meson value 5796 to metric and in reciprocal 1.7253 and this to the negative three is .146 thus as unity plus the third turn of golden section spiral from .618... noting also .7253 is close to .7236 which in reciprocal is unity plus the complement of the golden section module .618...

Another particle in scope is the Primed Eta Meson weighing in at 957.78 to mass metric in reciprocal .0001044 and to neg fifth is .65 as in reciprocal 1.5393 and .5393

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in reciprocal 1.854 or three times the golden section module... whereas 957.78 to neg 2 is 5.56 where .56 is as previously described in reciprocal unity plus .7854 quadrupled then Pi... 5.56 in reciprocal as .1798 is times three .5393 or the reciprocal of 1.854 thus three times the golden section module... Also considered is the Boltzman Constant as to metric 1.380649 and to third power is approx. .7236 which in reciprocal is 1.382 or unity plus the complement of the golden section...

The Apeirogon of title means an infinite sided polygon possibly...thus infinite functions invited over the set distribution of Cantor tree where central removals result in a tension between boundaries such as the

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Alexander Horned Circle where elicited singularities transcend the expected boundaries… the Greek word ‘pei” or transformation figures in the word then in an interesting sense.

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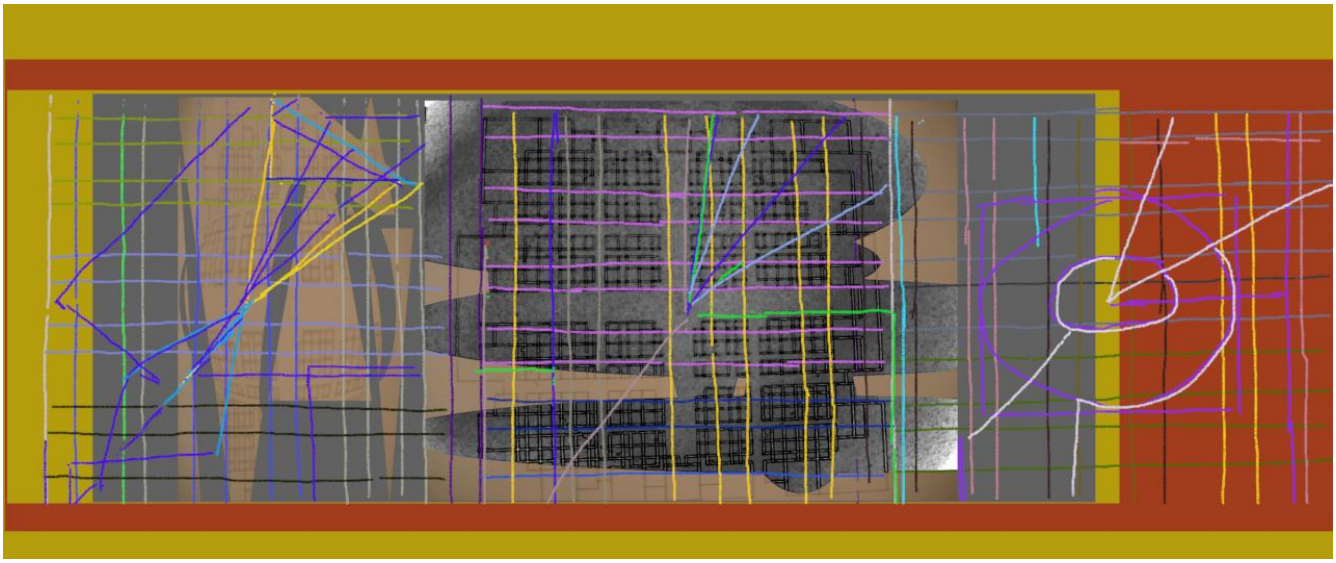

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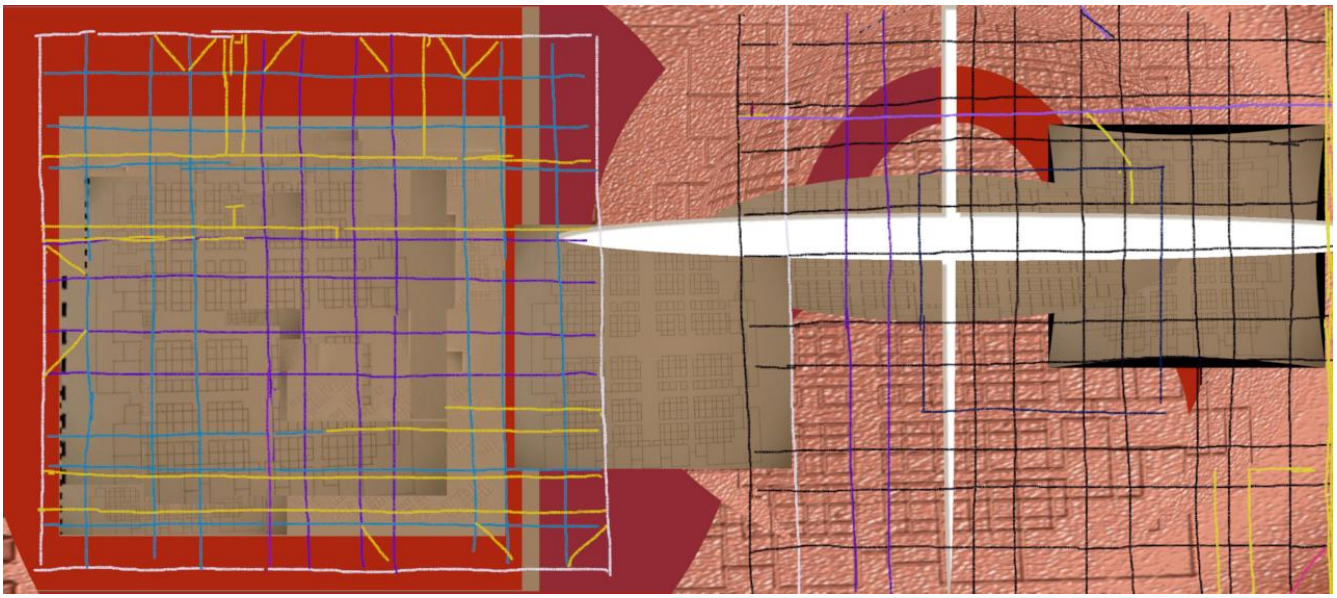
Monstrous Moonshine Bridge 24/27 With Gate -Like Grid



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Group Representation is built over the hyper complex numbers most of which are non comutative except for Duals, and Perplex or(hyperbolic or split comple,) over the Reals and from this is the resonance of the Harmonic Hyper Complex numbers in which I relate Pi and the Golden sections on the basis of that extension which frames an interest in simplifying representation to something like a quantum gates like representation in which the relation on infinitesimals in the golden section vocabulary become fuzzy number analogical to noise in quantum representation and which have projective range dimensionally and can be strongly related to Hyper Real

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Numbers as relating infinities and infinitesimals thus origins in Lie Algebraic and Geometric co definition towards combinatorics of which also the Amplitohedron creates beyond the Catalan ,Betti and Poincare structures of counting dimensions ie extended polyhedron geometric over manifold algebraic modes...

The mathematical relations in this bridge are between the Sigma 500 meson and the Fischer 24 Group of the Sporadics respectively where the former is mass to metric value 550 which in reciprocal is .001818 and to fourth power approx. 1.1927 and .1927 times ten is 1.927 approx. = .65 +.6336+ .64 thus .65 as 1.5393 is unity plus

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three times the golden section module and .6336 the half ratio of the square root of the module and = unity plus the square root of three... and .64 is unity plus .56 as squared approx. reciprocal of pi and as 1.7854 itself in reciprocal .7854 times 4 is pi.. on the other hand .001818 to the fourth power is .206 and times 3 is the golden section module .618...

Turning to the Fischer series: value of 1233,205,709,190,661,921,292,800 as approx. 7.9668, in reciprocal 12552 and to negative two is .0156 or in reciprocal 64 perfect 8x8 square and figures in structure of the Planck... as also .12552 to neg 2 is .354 and this times two is .708 or the value of the square root of two which coincides with being three times .236 the second

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turn of the golden section spiral from the .618 module...

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25/26 Monstrous Moonshine Bridge with Bot Atom and Gell-Mann's Eighth Wonder OTW

Einstein's Slant

Since the higher dimensions are as of a sphere on the fringe would one say interactions towards the center of this empty space if compared to a quantum dot which moved from that electromagnetic resonance at fringe relative the effect of quantum color charge dominating center where the bot like atom that it is it's characteristic forms a pseudo particle which on fringe until relaxing back to the

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surface has qualities comparable to black holes (except gravity in that case interferes with the relaxing) and also perhaps the Einstein/ Bohrs thought experiment on a single atom performing between wave and particle via an intervening barrier of the slit experiment?

Representing this question then the ongoing monstrous Moonshine Bridge is placed in the context of an eighth wonder of the world namely The Egyptian Temple of Dendera as placed in glass building created by Tony Roche Architects to house it in the Metropolitan museum- the significance of the glass medium being that it highlight the structural concept of "set back" from property lines which informs architecture, and in this case the

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double property line over time and space(the temple was of course transferred from Egypt!) then has strong overtones of conceptual art (which generally considers legal aspects of the social contract within art purview) thus within artistic domain to begin with and of course notably the Egyptian building built in Alexandrine times and Greek influenced is a Golden section structure. To our interest then the idea of setback in transparency belongs as well to the idea of higher dimensions in which a three dimension structuring of the Greek gnomon (‘that by which things are known, symbolized by architects edge and by sundial and an explicit diagram linked to Pythagorean theorem relating side to edge ration in unitary construct…

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successively sets back the hypersphere advances in dimension and the setback exists as a “brane”...thus the glass emphasis and an interior referent to an enclosing wall of the Japanese section with window above as a lookout and reference to a modular setback per the gnomon per the section.

Positive setbacks coned:

The pavilion has a dropped level and reflecting pool relative window locus on opaque wall with window above as Japanese Room section...

The specific dimension of the Dendera building and Processional will be considered then in relation to the representatives of the Sporadic Group and

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the Particles Group as their relative Monstrous Moonshine Bridge...

Dimensions considered of Dendera then are 6.4 meters by 12.5 ground plus 6.4 Hight where 6.4 times ten is 64 the perfect 8x8 square and familiar of Gell-Mann matrices and .64 in reciprocal is unity plus the square root of three which extends the basis diagonal of the square root of two... 6.4 times 12.5 is .512 or half unity plus .0124 as .0124 is the half ratio of the sixth turn of the golden section from the reciprocal of the square root of five... and .512 to the negative 4 is 1.09 where .09 is the fifth turn of the golden section spiral from the 1.618 (the two approaches of the g.s module proper and its parent root five then a kind of comparative lattice) ... .512

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x6.4 squared is .0248 which we have seen is 6th turn from the parent side of the lattice... .512 divided by 6.4 is .0808 and times 4 is .7236 in reciprocal 1.382 or unity plus the complement of the golden section .618 module... .512 to the negative 4 is 1.09 and .09 is the fifth turn of the g.s on that side of the lattice and 1.09 is echoed in the dimensions of the Processional as 3.66x 3.35... as well: the 12.5 dimension squared is 156.25 times ten is approx 1.56 where .56 square is approx the reciprocal of pi and .56 in reciprocal as 1.7854 finds .7854 times four=pi...

Of this drawings overall interest in the projection to higher dimensions then Objectively speaking one notes that the harmonic group extended over the hyper

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reals study out the setback structure of the brane in hyper dimension extending a sinusoidal relationship between successive branes…

Representative of the Particle Group and Sporadic Group on the Processional:

Involve the Conway group three as 42305421312000 as approx. 2.3636 approx 2.36 or ten times .236 the third turn of the golden section spiral… 2.36 = .4224 approx which is the complement of .578 as reciprocal of square root of three… if the .3636 term is considered this is the complement of .6336 which is unity plus the square root of three as in reciprocal form of square root of three to unity…

The particle of interest turns out to be the charmed vector mason of .2020.26 to mass

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metric value... in reciprocal .0049 and to negative fifth power .718 and .718 times four is 2.8726 where .8726 is the reciprocal of 1.146 or unity plus the fourth turn of the golden section spiral... and the complement of .718 a .3446 as doubled is then .7854 which times four is pi and its own complement is the reciprocal of the Feigenbaum...

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Monstrous Moonshine Bridge 26/26 with Fibonacci and Majorana Quibits where “Rivers upon Rivers” and Persistent Homologies of the Swampland offer the Great Paradox of Natures Exclusive Randomness Interdicting Measure towards Consideration within Flying Blind of “Post Dimensional” parameters per Randomness Meeting Noise as it’s Recursive Gnome…

if I take a number series such as .0073,.073,.73,.703,.7003 (where the last is the complement of c speed of light in reciprocal e.g..2997 and the zeros as holes occur by subtracting the complement at degrees of dividing by ten then then can a series be topological, and would this have reference considering the complementary

e

mode and the light statistic to neutrinos as potential Majorana particles?

Assuming this hypothesis forward then I compare the above series to the suffixes of the golden section ranging between .0019 and .0091 reflective of origins of section in sum of reciprocals of square root of ten and eleven with square root of five as means...and at a seven-fold we see weak theta also as 1.618 to that .618...

The second series is then a qubit and the first is a topological qubit analogically... the fuzzy number tunneling of the latter over the topological features of the former as relating noise topological probe modelling Majorana features of the shifting of the neutrino as the fuzzy

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number amplitudes introduced towards interrupting matter -anti matter parity...

The Particles and the Sporadic Group series involved in relating Monstrous Moonshine or that link between the physics particle and primes were represented in this bridge by the Conway 3 group and the neutrino whose oscillations and identity as a Majorana particle allow it a very slight mass... the Conway 3 group at value 49576656000 is in reciprocal 2.0173 and = 1.65 or unity plus the reciprocal of unity plus the reciprocal of the golden section module or .606 reciprocal of 1.65. The .0173 value times 100 is 1.73 or the square root of three. Interestingly the value per eV of Neutrino as .116 is to negative four .764 or

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reciprocal of 1.309 which doubled as 2.382 is then twice unity plus the complement of the golden section module .618…

The titles reference to “rivers upon rivers” is a quote from Heraclitus, philosopher of flux, while swampland refers to infinite variations and potentials and persistent homologies are forms of approaching the flux mathematically…

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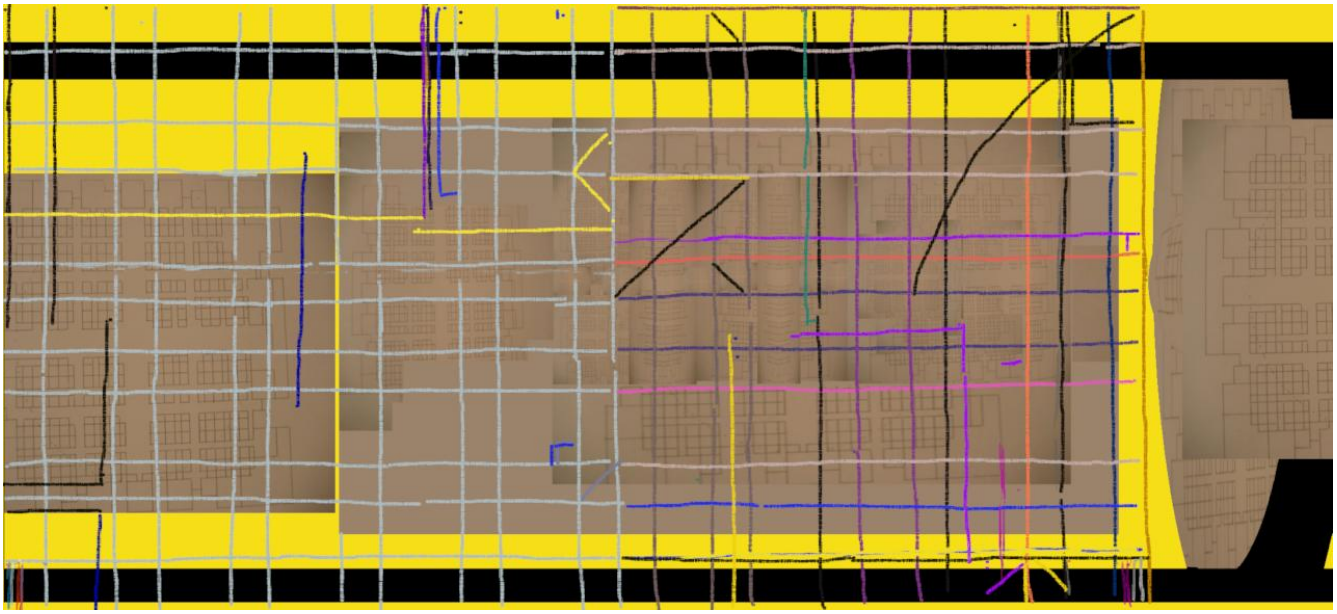

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